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Induced Inflow Velocity and Blade Surface Pressure Measurements for a Helicopter Model in Forward Flight

*Volume I: Advance Ratio of 0.37, Thrust
Coefficient of 0.0081 and Hover Tip
Speed of 710 Ft/Sec*

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VELOCITY AND BLADE SURFACE PRESSURE
MEASUREMENTS FOR A HELICOPTER MODEL
IN FORWARD FLIGHT. VOLUME 1:
ADVANCE RATIO OF 0.37, THRUST
COEFFICIENT OF 0.0081, AND HOVER
TIP SPEED OF 710 FT/SEC (Diskette
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~~CONTAINS~~
~~COLOR ILLUSTRATIONS~~

Summary

An Advanced Lightweight Rotor (ALR) model was tested in high speed forward flight, $\mu = 0.37$, at the 14- by 22-Foot Subsonic Tunnel at the NASA Langley Research Center. The pressure instrumented rotor, provided by Bell Helicopter, was a four-bladed, Mach-scaled, bearingless, soft-in-plane design. Rotor performance data were acquired from Bell's Powered Force Model (PFM) test stand, and the blade airloads were obtained using 92 unsteady pressure transducers. A two-component laser velocimeter was used to obtain azimuthally dependent velocities in the inflow region and in the wake of the rotor. Data are presented here without analysis. To facilitate the use of the data sets they are also provided on a 720 Kbyte 3 1/2-inch floppy disk in Microsoft Corporation MS-DOS format. The disk contains both the velocity time history and the blade pressure time history data.

Introduction

Several investigators have worked on various phases of identifying the wake structure and how it relates to blade airloads (references 1-4). A key element of these studies has been the establishment of the wake geometry, whether defined from flow visualization or other measurements. Comparisons of available rotor performance test data with various analyses show improved correlations at high advance ratio when a free wake model is used in the analysis. Harris (reference 5) noted that the free wake analysis model included in CAMRAD, (reference 6) predicts substantial induced drag for a rotor operating at high advance ratio and thrust, particularly over the aft portion of the rotor disk. Understanding the physical processes responsible for the high induced drag requires detailed information concerning the unsteady blade airloads and the surrounding unsteady flow field. Extensive measurements (references 7-9) have documented the induced inflow variations for a model rotor in forward flight. Blade surface pressure measurements have also been obtained in separate efforts, such as the works indicated by Hooper in reference 10, or more recently the pressure instrumented model rotor test at the DNW (reference 11). Such measurements serve as a needed vehicle for the validation of existing and emerging aerodynamic computer prediction codes, but comprehensive measurements of the rotor blade loads and rotor flow field nevertheless remain relatively sparse. In particular, a complete simultaneous measurement of inflow velocities, wake velocities, and blade pressures from a single test configuration in forward flight has not been available. Better insight into the validity of the free-wake blade load computations could be gained by combining experimental measurements of blade airloads with flow field velocity data for a single rotorcraft configuration. Variations of the rotor tip speed could serve to address questions that have been raised regarding the impact of tip speed on the rotor wake structure (reference 12).

With the aim of generating such a data base a joint government/industry test program was initiated which concentrated on only four flight conditions. The purpose of the test was to investigate the aerodynamic environment of a rotor operating at high advance ratio, high thrust, and with a significant degree of propulsive force. Data concerning flow field velocities and blade pressures for two tip speeds and two thrust coefficients were acquired. The data base provided by this report includes the induced inflow velocities above the rotor plane and at select points in the rotor wake, the blade pressure measurements, rotor forces and moments, as well as model operating conditions for a single flight condition. References 13 and 14 provide the first analyses utilizing portions of this data base.

Notation

A	rotor disk area, πR^2 , ft ²
A_0	constant term in Fourier series of blade feathering (collective) at $r/R = 0.7125$, deg
A_1	coefficient of cosine term in Fourier series of blade feathering, at $r/R = 0.7125$, deg

B_1	coefficient of sin term in Fourier series of blade feathering, at $r/R = 0.7125$, deg
b	number of blades
C_P	blade pressure coefficient, $(P - P_{\text{inf}})/(1/2 \rho V_{\text{local}}^2)$, non-dimensional
C_P	rotor power coefficient, $p/\rho A V_{\text{tip}}^3$, non-dimensional
C_X	rotor propulsive force coefficient, $X/\rho A V_{\text{tip}}^2$, non-dimensional
C_Q	rotor torque coefficient, $Q/\rho A R V_{\text{tip}}^2$, non-dimensional
C_T	rotor thrust coefficient, $T/\rho A V_{\text{tip}}^2$, non-dimensional
c	rotor blade chord, inches
P	local static pressure, lb/in ²
P_{∞}	free-stream pressure, lb/in ²
Q	rotor torque, ft-lb
q	dynamic pressure, lb/ft ²
r	local radius of the rotor system, ft
R	rotor radius, ft
T	thrust produced by the rotor, perpendicular to the tip-path-plane, lb
U	streamwise component of velocity, positive downstream, ft/sec
U_{∞}	free-stream velocity, positive downstream, ft/sec
u_i	induced component of velocity parallel to the tip path plane (positive downstream), ft/sec
V	vertical component of velocity, positive up, ft/sec
V_{local}	flow velocity relative to blade, $\Omega r + \Omega_{\infty} \sin \phi$, ft/sec
V_{tip}	rotor blade tip velocity, ft/sec
v_i	induced component of velocity normal to the tip path plane (positive up), ft/sec
X	rotor propulsive force, positive forward (wind axis)
	distance measured along the X coordinate axis, positive downstream, ft
Y	distance measured along the Y coordinate axis, positive to right, ft
Z	distance measured along the Z coordinate axis, positive up, ft
GREEK	
α	angle between tip path plane and free-stream velocity (positive nose up), deg
λ	inflow ratio normal to tip path plane (positive up), $(U \sin \alpha + v_i)/V_{\text{tip}}$
λ_i	induced inflow ratio normal to tip path plane, (positive up), v_i/V_{tip}
μ_{∞}	rotor advance ratio, $\mu_{\infty} \cos \alpha / V_{\text{tip}}$

μ	inflow ratio parallel to tip path plane (positive down stream), $(U \cos \alpha + u)/V_{tip}$
μ_i	induced inflow ratio parallel to tip path plane (positive down stream) u_i/V_{tip}
σ	standard deviation
Ω	rotor rotational speed, radians/sec
ψ	rotor azimuth measured from downstream position positive counterclockwise as viewed from above, deg
ρ	air density, slug/ft ³
σ	rotor solidity, $bc/\Pi R$
θ	blade pitch angle at a specific azimuth, $r/R = 0.7125 \theta = A_o - A_1 \cos \psi - B_1 \sin \psi$, deg
\bar{x}	mean values

Experimental Apparatus

The experimental was conducted in the NASA Langley Research Center 14- by 22-Foot Subsonic Tunnel using Bell Helicopter Textron's Powered Force Model (PFM), a pressure instrumented Advanced Lightweight Rotor (ALR) and a two-component laser velocimeter.

The 14- by 22-Foot Subsonic Tunnel is an atmospheric, closed-circuit wind tunnel of conventional design with enhancements for the testing of powered and high-lift configurations (reference 15). The tunnel is pictured in figure 1 and shown schematically in figure 2. This investigation was conducted with the walls and ceiling raised leaving a solid floor and a flow collector at the rear of the test section. The speed in that mode is limited to approximately 170 knots. This configuration was selected because it provides the LV system with unrestricted optical access to the test section. Figure 3 shows the PFM installed in the forward part of the open test section.

Powered Force Model

Bell Helicopter Textron's Powered Force Model (PFM) is a general purpose rotor test stand designed to test Mach scaled rotors. The PFM can accept rotors from 4 to 10 feet in diameter and operate at a maximum of 3000 RPM. As shown in figure 4, the PFM is comprised of an input quill assembly, pitch change mechanism, yaw change mechanism, test stand dynamic isolator unit, a five component rotor balance and swash plate for blade pitch controls. The input quill accepts two variable frequency electric motors rated at 75 HP each. Rotor pitch rotation takes place about the input quill axis by a pitch change actuator mechanism. Yaw rotation of the rotor pylon occurs above the input quill along the drive shaft axis. The test stand isolator consists of four rubber dampers that can be adjusted or locked-out depending on the rotor frequency requirements.

The non-metric fairing , shown in figure 5, was designed to minimize test stand aerodynamic interference with the rotor. The cross-sectional shape utilizes a NACA 0033 airfoil shape. The five component balance can resolve the rotor forces into conventional forces and moments. Mast torque is measured by a separate strain gage located below the rotor hub attachment point. The rotor mast is driven through a flex-coupling designed to eliminate transmission of extraneous loads into the balance. The rotor cyclic and collective control are mounted above the rotor balance.

Advanced Lightweight Rotor System

The Mach-scaled Advanced Lightweight Rotor (ALR) is a four bladed, bearingless soft-inplane design. Two stacked fiberglass flex-beam yokes and four composite rotor blades with integral cuffs and elastomeric

shear dampers comprise the rotor system. The rotor characteristics are summarized below and airfoil coordinates are summarized in table 1.

ALR and Blade Characteristics

Hub Type	Flex beam
Number of Blades	4
Root cut-out, inches	9.00
Geometric pitch-flap angle, deg	51.71
Twist Linear, deg	-8.00
Radius, inches	48.00
Airfoil chord, inches	3.720
Geometric solidity	0.098674
Weight (per blade), lb	1.699
Flapping Inertia, slug-ft ²	0.2151
Lead/Lag damping, in-lb/deg/sec	182.4

The airfoil coordinates shown in table 1 are defined at a specific radius or over a range on the blade. Linear interpolation was used to transition between subsequent values given in the table. The blade twist distribution is shown in figure 6 and the blade structural properties are tabulated in table 2.

Two of the rotor blades are instrumented with 92 high-frequency-response pressure transducers that are embedded in the blade surfaces with the pressure diaphragm perpendicular to the span of the blade. Pressure data acquisition was planned to be coincidental with flow seeding which was necessary for LV measurements. Consequently a special transducer mounting was designed to protect the pressure transducers from the LV seed particles. Prior to final assembly and covering of the blade the transducers were inserted in a capsule and then placed into a trough prepared in the blade surface. A 0.020 inch diameter hole was drilled through the blade surface and into the capsule after final covering and curing of the blade. This installation added durability to the pressure transducers by preventing the LV seed particles from impacting directly against the delicate transducer head. The frequency response of the installed pressure transducers were measured. Prior to installation, the natural frequency was near 400 KHz and after installation it was 40 KHz.

The spanwise distribution of transducers was selected to capture large gradients in blade lift and to suitably locate transducers for measuring the effects of blade-vortex interaction during high speed flight. Information from two-dimensional measurements of the airfoil pressure distribution was used to determine the chordwise locations of the transducers. The selected locations allowed for accurate integration of the measured pressures to obtain the blade normal force. The transducers were located at spanwise positions corresponding to 0.685 R, 0.730 R, 0.805 R, 0.865 R and 0.960 R. At each of these locations there were 16 transducers arranged chordwise. At spanwise locations of 0.325 R, 0.500 R, 0.583 R, 0.750 R, 0.903 R and 0.940 R, isolated transducers were located on the upper and lower blade surface between 3 and 6 percent chord.

The distribution of blade pressure transducers is shown schematically in figure 8. Tables 3-6 summarize the pressure transducer locations representing a matrix of chordwise and spanwise positions. Since two blades were instrumented (blade number two and blade number four) and each blade has an upper and a lower surface, four tables are given. Elements in the matrix are either null (indicating no transducer at that location) or are supplied with a four-digit item code which corresponds to a pressure transducer channel. The item code can be used to identify the transducer output in the tabulated blade pressure data.

The PFM data acquisition system uses an HP3852A Data Acquisition and Control Unit that receives and stores data from several sources, including the test control computer, the Rotor Synchronized Digitizer (RSD) and NASA Langley's Static Data Acquisition System. The data acquisition system is shown schematically in figure 9. The RSD is a 32 channel sample and hold analog to digital converter. The sampling is triggered by an optical shaft angle encoder that is also used by the LV system.

LV System

The LV system used in this investigation was designed to measure the instantaneous components of velocity in the longitudinal (streamwise) and vertical directions as described in reference 16. The system is comprised of four subsystems: optics, traverse, data acquisition, and seeding. The optics subsystem, shown in figure 10, operates in backscatter mode and at high power (4 watts in all lines) in order to accommodate the long focal lengths needed to scan the wide test section. The transmitting and receiving optics packages are augmented by a zoom lens system consisting of a 3-in. clear aperture negative lens and a 12-in. clear aperture positive lens. Bragg cells in each optical path provide a directional measurement capability. The velocity measurements are made at a point in space where the four beams cross, called the sample volume. The length of the sample volume (transverse to the flow direction) increases as the sample volume is moved away from the optics assembly. Over the 10 to 20 foot focal length the sample volume is less than 1 cm long with a nearly constant diameter of 0.2 mm.

The traverse subsystem provides five degrees of freedom in positioning the sample volume and is controlled by the same computer that is used for data acquisition. Translation of the sample volume in the horizontal and vertical direction is accomplished by displacing the entire optics platform. Translation along the lateral axes is accomplished by displacing the negative lens located in the zoom lens assembly, thus refocusing the sample volume along the axis of optical transmission. The other two degrees of freedom, pan and tilt, are implemented by rotating the final mirror about its vertical and horizontal axis in order to change the direction of optical transmission. The total inclusive range of the traversing system is 7 feet vertically, 6 feet streamwise, 16.5 feet laterally, and 7 degrees in both pan and tilt. Measurements can be made outside of this envelope by repositioning the optics platform, which is mounted on wheels to facilitate such relocations. For this study the traversing system was positioned to the left of the test section when looking downstream as shown earlier in figure 3.

The LV data acquisition subsystem, shown schematically in figure 11, interfaces with the optical signal processing equipment to receive two channels of raw LV data and up to five channels of auxiliary data. In this investigation the tunnel and model parameters were passed from the 14- by 22-foot tunnel Static Data Acquisition System (SDAS) and the Model Data Acquisition System (MDAS) respectively. Two of the auxiliary channels (one each for the U and V components) measured the azimuthal position of the rotor shaft. The system converts the raw LV data to engineering units and determines the statistical characteristics of the data so that preliminary test results can be evaluated during the acquisition process. The raw data which is acquired from the buffer interface device and the 64 parameters which are acquired from the SDAS and MDAS are written to magnetic tape for later analysis. Another function performed by the data system is to interface with and control the five degree-of-freedom traversing system.

The seeding subsystem, shown schematically in figure 12, is a solid particle, liquid dispensing system (reference 17). Solid polystyrene latex microspheres are suspended in 100 proof Ethanol and dispensed into the tunnel flow. Polystyrene particles are used because of their low density, high reflectivity, and precise particle size. The size of the particles used in this investigation was 1.7 microns in diameter with a standard deviation of 0.0239 microns. The mixture was pumped to an array of nozzles and atomized by compressed air. The nozzles are mounted on a remote positioning system located in the settling chamber of the tunnel as shown in figure 13. The low vapor pressure of the Ethanol allows it to evaporate as it travels the 85 feet from the settling chamber to the test section thus leaving behind the solid particles. The fluid velocity is inferred from the velocity of these particles as they pass through the sample volume of the laser velocimeter.

Error Analysis

The overall LV system error is obtained by summing the error of all of the components that contribute to an error in the velocity measurement. The error sources are summarized in table 7, and are defined in references 18 and 19. They result in a velocity bias error of 0.84 percent and a random error of 0.37 percent. Taking the square root of the sum of the squares of these gives a total system error of 0.92 percent.

The 1/16 in. diameter blade pressure transducers were selected for operation in the 0-25 PSI range. Transducer output is proportional to the absolute pressure at the sensor. The exact relation was determined by calibrating each transducer. The combined effects of non-linearity and hysteresis were stated by the manufacturer, giving a measurement uncertainty of 0.5 percent of full scale. Repeatability is also given to be 0.1 percent of full scale. Static calibration of each transducer prior to installation showed that the measurement error of the transducers was well within the 0.5 percent uncertainty margin.

The transducer design utilizes a fully active four arm Wheatstone bridge diffused into a silicon diaphragm. This design offers low acceleration sensitivity (0.0002 percent of full scale per g) and high frequency response. High frequency response of the pressure transducers was necessary, since the blade surface pressures vary rapidly in forward flight. A typical transducer frequency response, prior to installation, was near 400 KHz. After installation the natural frequency was near 40 KHz. This was considered adequate since all data channels processed by the rotor system digitizer were subjected to an 800 Hz cutoff. Since large centrifugal forces were applied normal to the sensor diaphragm, a low acceleration sensitivity was desirable. In addition corrections were applied to the pressure readings depending on the transducer radial location and the rotor rotational speed. Errors in the blade pressure measurements are attributed to the sources listed below:

Transducer combined hysteresis and nonlinearity	$\pm 0.125 \text{ lb/in}^2$
Transducer Repeatability	$\pm 0.025 \text{ lb/in}^2$
Signal Conditioning Module	$\pm 0.010 \text{ lb/in}^2$
Discriminator Circuits	$\pm 0.15 \text{ lb/in}^2$
RSD analog to digital converter	$\pm 0.016 \text{ lb/in}^2$

The total output error, expressed as a Root Mean Square error is $\pm 0.221 \text{ lb/in}^2$. This error applies to all absolute pressures contained in table 11, and to the results in figures 187 through 229.

The effects of temperature variation on pressure measurements is minimized by the temperature compensating feature of the transducers. The temperature compensating range is from 80 degrees F to 180 degrees F. The thermal sensitivity shift in the compensated range is stated by the manufacturer as 1 percent per 100 degrees F. Operating temperatures during the wind tunnel test generally did not vary more than a few degrees during a run. Additionally, all data were obtained within 20 degrees F of the calibration temperature, thus no temperature correction was applied to the measured pressure. An overall root-sum-square uncertainty in the blade pressure measurement is thus estimated at 0.51 percent full scale, based on the transducer repeatability, hysteresis and linearity errors stated by the manufacturer.

Test Procedures

Inflow and Wake Velocities

Inflow velocity measurements were taken along radials spaced azimuthally by increments of 30 degrees from the downwind position. The inflow measurement points were kept a constant 3.72 in. (one chord length) above the rotor tip path plane. Note that the tip path plane was derived from the blade coning and first harmonic flapping motion. Measurement points along each radial were selected to coincide with the radial location of the pressure transducers mounted in the instrumented rotor blades and extended

from $r/R = 0.2$ to a point outside the blade tips at $r/R = 1.1$. Figure 14 shows the inflow measurement locations superimposed on the rotor disk. The rotor tip path plane was set at -5.8 degrees relative to the free stream to produce a propulsive force coefficient of 0.006. The tip path plane was maintained at -5.80 degrees by setting the shaft angle to -5.80 degrees and zeroing the first harmonic of the yoke beam bending at station 0.15. The operating rotor speed was approximately 1697 RPM, the nominal tunnel speed was 263 ft/sec resulting in an advance ratio of 0.37. The model RPM and tunnel speed were set to achieve a constant advancing tip Mach number, which for this test condition was 0.617. The nominal rotor thrust coefficient was 0.0081.

The LV data acquisition process consisted of placing the sample volume at the location to be measured and acquiring 4096 individual velocity measurements for both the U and the V components. This process typically required less than two minutes per measurement point. During this time conditional sampling techniques were employed to measure the azimuth of the rotor. Each of the 4096 instantaneous velocity measurements were thus permanently identified with a known rotor azimuth angle so that the data could be cyclic averaged. At the conclusion of this process the measurement location was changed and the acquisition process was repeated.

Wake Velocities

Wake velocities for the $C_T = 0.0081$, $V_{tip} = 710$ ft/sec test case were obtained in a similar process. The wake measurement locations were proposed during pre-test evaluations of the wake geometry, as defined in reference 20, and were finalized after flow visualization. A top view of the wake measurement locations and the predicted location of the rotor and tip vortices at $\psi = 0$ is shown in figure 15. Each circle represents a vertical line of measurement stations positioned to capture a tip vortex at a specified time (rotor azimuth angle). The vertical spacing between wake measurement points at a given location in figure 15 is 1.03 inches. The wake measurement stations are summarized in figures 17 through 18. The measured induced component of velocity are shown in vector form for points in the $y/R = -0.6$, $y/R = -0.2$ and $y/R = 0.2$ cross-sectional planes for the instant when rotor azimuth is zero degrees. The marker symbols in these Figures represent predicted locations of tip vortices in the corresponding cross-section. The inset depicts the top view, showing the predicted wake geometry in relation to the measurement locations. Generally, the measurement locations were chosen such that the blade passage effects would be minimal when the vortex was at the measurement site.

Blade Pressure and PFM Data Acquisition

The data acquisition and control unit receives blade pressure data through the Rotor Synchronized Digitizer. Analog signals from the pressure transducers, and force balance are converted to digital signals by the RSD. The pressure data was sampled in groups of 32 channels such that two complete chordwise pressure distributions were obtained simultaneously. The pressures were sampled 64 times per revolution for a total 32 rotor revolutions. The timing for each data sample was provided by the same 1/rev and 1024/rev optical encoder that was used for the laser velocimeter measurements. Upon acquiring the first group of pressures the next group of 32 channels were switched to the RSD. This switching sequence continued until all the pressure transducer, force balance, and strain gage channels were scanned. Data could be stored either as a time history, a cycle average or a single mean value.

Data Reduction

Velocity Measurements

Each velocity measurement has associated with it an encoder signal indicating the position of the blades when the measurement was made. This information was used to sort the velocities into 128 bins, each 2.81 degrees wide, encompassing the 360 degrees of blade rotation. The sorting process was required to present the data that required up to two minutes (3400 rotor revolutions) to acquire in a format of a single

rotor revolution. The velocity value assigned to each of the 128 azimuthal intervals used in the azimuth dependent reconstruction is the arithmetic mean of all the measurements that were taken in the respective 2.81 degree azimuthal range. The mean velocity value for a single measurement location is the arithmetic mean, calculated from all of the 4096 measurements that were made at that measurement location.

Blade Pressures

Signals from the blade pressure transducers were passed through a 5-pole Butterworth filter with a 800 Hz cut-off frequency to attenuate noise and anti-alias the data. The RSD sampled the filtered data 64 times per rotor revolution, for 32 revolutions, producing a continuous time-history stream for each data channel. The raw digital output was processed by a mini-computer to convert the data into engineering units.

Before processing the unsteady pressures, the stored data were harmonically reconstructed to account for phase-shifting caused by the filter. The Butterworth filter phase-shifts a signal by a known amount which is dependent upon the signal's frequency. A software utility in the program DATAMAP (reference 21) was used to derive eight harmonics from the stored data of each channel. Since the harmonics represent a pure frequency, a discrete phase-shift was applied to each of them. The eight phase-corrected harmonics were then recombined to provide the final harmonically reconstructed time-histories which were used in further processing.

DATAMAP was further utilized to obtain cycle averaged representations of the unsteady blade pressures. Thus, blade pressure data are presented as a single representative rotor revolution. Results are expressed in two forms. The first is in terms of the absolute pressure in units of lb/in². The other is expressed in terms of the local blade pressure coefficient. Both forms are included in this report.

Experimental Results

Rotor Performance

Rotor performance obtained while the blade pressures were being measured is provided in table 8. The average rotor performance obtained during the inflow measurement process is presented in table 9. The values for propulsive force is shown in tables 8 and 9 as uncorrected include the effects of the hub. The hub tares were not measures in this test, but the results obtained in an earlier investigation conducted at 163 knots were used to correct the propulsive force on this test. The correction consisted of adding 0.0001198 to the uncorrected propulsive force. Variations in rotor performance parameters during the lengthy Laser Velocimeter acquisition process occurred because of slight variations in model operating conditions. The rotor parameters of thrust, X-force and power for a particular inflow point may be determined from the plotted performance data presented in figure 19. These results depict the values of C_T , C_X and C_P that occurred while the LV data was being acquired and are presented by a fixed symbol marker as indicated in the legend.

Velocity Measurements

The mean and standard deviation of the two components of the induced inflow ratio are given in table 10. Also included are the number of measurements comprising the statistical values for each case. In figure 20 the mean induced inflow ratio (longitudinal), μ_i , with a band of \pm one standard deviation is plotted versus radius for each radial scan. Figure 21 presents in the same format the mean induced inflow ratio (normal), λ_i . The \pm one standard deviation is not indicative of error in the measurements but rather of the unsteady nature of the flow. The error of 0.92 percent is approximately equal to the size of the symbols in figures 20 and 21. The same data, without the one standard deviation, is presented in a contour plot format in figure 22 to show the distribution of the mean induced inflow over the whole disk (viewed from above). Shown in figures 23 through 186 are the time dependent induced inflow ratios. The format of each of figures is the induced inflow ratio with the mean value removed versus azimuth

at the top of the figure, the number of measurements that went into determining the mean for each bin in the center, and an order ratio analysis of the time dependent data at the bottom of the figure. The tabular and plotted data presented figures 23 through 186 is contained on the 3 1/2 inch floppy disks in Microsoft Corporation MS-DOS format (see pocket inside rear cover). The details of the data format, and file structure are located in the file "README.DOC".

The figure numbers for the azimuthal and radial locations are indicated below. Locations where no measurements were made are indicated by "xx".

r/R	Azimuth											
	0	30	60	90	120	150	180	210	240	270	300	330
0.20	23	36	50	63	76	90	104	118	132	146	159	173
0.32	24	37	51	64	77	91	105	119	133	147	160	174
0.50	25	38	52	65	78	92	106	120	134	148	161	175
0.58	26	39	53	66	79	93	107	121	135	149	162	176
0.69	27	40	54	67	80	94	108	122	136	150	163	177
0.73	28	41	55	68	81	95	109	123	137	151	164	178
0.75	29	42	56	69	82	96	110	124	138	152	165	179
0.81	xx	43	57	70	83	97	111	125	139	153	166	180
0.86	30	44	58	71	84	98	112	126	140	154	167	181
0.90	31	45	59	72	85	99	113	127	141	155	168	182
0.94	32	46	xx	xx	86	100	114	128	142	156	169	183
0.96	33	47	60	73	87	101	115	129	143	xx	170	184
1.00	34	48	61	74	88	102	116	130	144	157	171	185
1.10	35	49	62	75	89	103	117	131	145	158	172	186

Blade Pressure Data

Blade pressure data are given in terms of absolute pressure and pressure coefficient and is provided both in tabular and plotted formats. Plotted blade pressure data are presented as the cycle-averaged output from pressure transducer at a fixed radial location as a function of blade azimuth angle in figures 187 through 228. The figures are arranged sequentially with the upper surface plot followed by the corresponding lower surface plot starting with the inboard locations ($r/R = 0.325$) and finishing at the outboard station $r/R = 0.96$. Data presented in terms of pressure coefficient is arranged similarly. Table 11 lists the blade pressure data that correspond to the plotted results. Table headings include the transducer 4-digit item code, blade number and also state the blade surface (upper or lower). This information can be used to identify the transducer according to tables 3-6. The chordwise and spanwise coordinates of the transducer are also contained in the headings in table 11. The pressure coefficient and absolute pressure are given as a function of rotor blade azimuth angle in increments of 5.625 degrees. The pressure data tables are arranged in sequence according to the transducer item code number. The tabular and plotted data presented in this section are contained on the 3 1/2 inch floppy disk in Microsoft Corporation MS-DOS format (see pocket inside rear cover). The details of the data format, and file structure are located in the file "README.DOC".

Concluding Remarks

This data set provides the measured inflow, wake velocities and the blade pressures produced by a rotor in forward flight. In addition, the model configuration and operating conditions are provided. The inflow

measurements provide the mean and azimuth dependent values while the blade pressure measurements are provided in only the azimuth dependent format.

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Table 1. ALR rotor Airfoil Coordinates

STATION	10.7"		
THICKNESS	22 %		
Upper X/C	Coordinates		Lower Y/C
	X/C	Y/C	
0.000000	0.000000	0.000000	0.000000
0.001220	0.012950	0.003140	0.011900
0.006200	0.025980	0.010650	0.023150
0.014570	0.038320	0.021860	0.033650
0.025980	0.049900	0.036200	0.043390
0.039990	0.060680	0.053170	0.052320
0.056350	0.070600	0.072420	0.060500
0.074710	0.079640	0.093690	0.067870
0.094860	0.087820	0.116660	0.074490
0.116540	0.095100	0.141170	0.080330
0.139590	0.101490	0.166930	0.085400
0.163810	0.107020	0.193760	0.089680
0.189030	0.111640	0.221380	0.093180
0.215040	0.115390	0.249580	0.095860
0.241580	0.118210	0.278120	0.097760
0.268450	0.120130	0.306870	0.098810
0.295570	0.121120	0.335870	0.099060
0.322910	0.121190	0.365250	0.098490
0.350590	0.120360	0.395300	0.097130
0.378760	0.118620	0.426570	0.094970
0.407610	0.116000	0.459690	0.091990
0.437330	0.112500	0.495590	0.088090
0.468080	0.108110	0.535620	0.083270
0.499980	0.103170	0.580850	0.077380
0.533000	0.098000	0.631770	0.070480
0.567030	0.092460	0.689310	0.062420
0.602170	0.086510	0.747400	0.054100
0.638900	0.080040	0.795870	0.046940
0.679610	0.072570	0.838160	0.040040
0.736040	0.061700	0.870240	0.034030
0.781000	0.052620	0.893380	0.029290
0.819440	0.044540	0.912620	0.025080
0.864810	0.034660	0.929830	0.021090
0.892040	0.028540	0.945600	0.017240
0.911860	0.024090	0.960300	0.013500
0.929350	0.020090	0.974180	0.009760
0.945260	0.016420	0.987380	0.006000
0.960080	0.012810	1.000000	0.002090
0.974060	0.009370		
0.987310	0.005670		
1.000000	0.002090		

Table 1. Continued

STATION	15.70" TO 36.70"	
THICKNESS	10 %	
	Upper Coordinates	Lower Coordinates
	X/C	Y/C
	0.000000	0.000000
	0.000490	0.004200
	0.002890	0.010640
	0.007080	0.016980
	0.012840	0.023070
	0.019850	0.028860
	0.027950	0.034230
	0.036960	0.039160
	0.046740	0.043610
	0.057240	0.047580
	0.068410	0.051090
	0.080230	0.054150
	0.092760	0.056820
	0.106040	0.059110
	0.135280	0.062810
	0.168990	0.065510
	0.208730	0.067580
	0.231160	0.068450
	0.254970	0.069190
	0.279130	0.069810
	0.302810	0.070280
	0.325590	0.070560
	0.347420	0.070670
	0.368450	0.070600
	0.388890	0.070310
	0.428520	0.069130
	0.467480	0.067080
	0.479280	0.066280
	0.499170	0.064720
	0.519100	0.062920
	0.544020	0.060380
	0.573880	0.056970
	0.593790	0.054490
	0.633630	0.049080
	0.673460	0.043120
	0.708180	0.037630
	0.777400	0.026830
	0.816630	0.021270
	0.836320	0.018670
	0.875820	0.013820
	0.895650	0.011560
	0.915490	0.009430
	0.930390	0.007920
	0.945280	0.006480
	0.965130	0.004690
	0.975060	0.003850
	0.985040	0.003050
	0.995020	0.002270
	1.000000	0.001880

Table 1. Continued

STATION		43.70"	
THICKNESS 18 %			
Upper Coordinates		Lower Coordinates	
X/C	Y/C	X/C	Y/C
0.000000	0.000000	0.000000	0.000000
0.001600	0.005040	0.000350	0.004690
0.004760	0.009670	0.002990	0.008460
0.009410	0.013880	0.007710	0.011370
0.015390	0.017760	0.014130	0.013780
0.022590	0.021370	0.022200	0.015820
0.030880	0.024760	0.031950	0.017620
0.040110	0.027920	0.043460	0.019280
0.050140	0.030830	0.056690	0.020880
0.060830	0.033500	0.071380	0.022400
0.072090	0.035910	0.087120	0.023810
0.083880	0.038080	0.103610	0.025110
0.096180	0.040000	0.120770	0.026280
0.109000	0.041690	0.138580	0.027340
0.122380	0.043170	0.157120	0.028290
0.136330	0.044460	0.176430	0.029140
0.150870	0.045550	0.196530	0.029910
0.166010	0.046470	0.217360	0.030580
0.181760	0.047220	0.238860	0.031170
0.198080	0.047800	0.260930	0.031660
0.232300	0.048510	0.283480	0.032080
0.268340	0.048610	0.306440	0.032400
0.306060	0.048130	0.329770	0.032640
0.345650	0.047100	0.353430	0.032800
0.387590	0.045530	0.377390	0.032870
0.432470	0.043420	0.425930	0.032770
0.480990	0.040770	0.474680	0.032340
0.533810	0.037570	0.522640	0.031590
0.591580	0.033810	0.568960	0.030540
0.655500	0.029420	0.613430	0.029150
0.690490	0.026950	0.656520	0.027410
0.728250	0.024300	0.699080	0.025270
0.769570	0.021410	0.742450	0.022660
0.811070	0.018460	0.788840	0.019450
0.846730	0.015870	0.843600	0.015320
0.878030	0.013540	0.876000	0.012790
0.901390	0.011770	0.900990	0.010800
0.921140	0.010180	0.914890	0.009680
0.940890	0.008440	0.935550	0.007970
0.960620	0.006510	0.952510	0.006490
0.980330	0.004340	0.960180	0.005790
1.000000	0.001880	0.981150	0.003700
		1.000000	0.001880

Table 1. Concluded

STATION	45.90" to 48.0"	
THICKNESS	6 %	
	Upper Coordinates	Lower Coordinates
	X/C	Y/C
	0.000000	0.000000
	0.000380	0.002760
	0.002360	0.007150
	0.006010	0.011000
	0.011120	0.014330
	0.017550	0.017260
	0.025200	0.019890
	0.043670	0.024410
	0.065310	0.027990
	0.089390	0.030630
	0.116100	0.032420
	0.146610	0.033560
	0.183180	0.034250
	0.227410	0.034630
	0.274670	0.034730
	0.320940	0.034520
	0.367390	0.033990
	0.415380	0.033130
	0.465380	0.031940
	0.517010	0.030450
	0.569690	0.028680
	0.622850	0.026660
	0.675790	0.024400
	0.727890	0.021950
	0.778480	0.019300
	0.826160	0.016540
	0.848350	0.015150
	0.869380	0.013740
	0.889260	0.012310
	0.905400	0.011070
	0.917610	0.010080
	0.927360	0.009250
	0.937110	0.008380
	0.949700	0.007210
	0.962280	0.005970
	0.968570	0.005330
	0.974860	0.004670
	0.981150	0.003990
	0.987430	0.003310
	0.993720	0.002600
	1.000000	0.001880

Table 2. ALR BLADE DISTRIBUTED PROPERTIES

RADIAL STATION (LB/IN)	WT/IN	EI*10^-6		CENTER OF GRAVITY		GJ (LBF*IN^2) (E-6)	SHEAR CENTER		NEUTRAL AXIS CENTER	
		BEAM	CHORD	BEAM	CHORD		OFFSET (IN) BEAM	CHORD	OFFSET (IN) BEAM	CHORD
0.900	0.2818	2.7579	7.027	0.000	0.000	0.149	0.000	0.000	0.000	0.0000
1.500	0.0244	0.0089	0.390	0.000	0.000	0.001	0.000	0.000	0.000	0.0000
1.900	0.0179	0.0045	0.297	0.000	0.000	0.002	0.000	0.000	0.000	0.0000
2.300	0.0252	0.0037	0.254	0.000	0.000	0.002	0.000	0.000	0.000	0.0000
2.700	0.6237	0.0035	0.212	0.000	0.000	0.002	0.000	0.000	0.000	0.0000
3.200	0.0144	0.0039	0.169	0.000	0.000	0.001	0.000	0.000	0.000	0.0000
5.200	0.0080	0.0036	0.063	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
6.530	0.0065	0.0044	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
7.862	0.0054	0.0051	0.013	0.000	0.000	0.000	0.000	0.000	0.000	0.0000
8.119	0.0090	0.0072	0.009	0.000	0.000	0.001	0.000	0.000	0.000	0.0000
9.000	0.3164	0.0115	0.053	0.000	0.000	0.002	0.000	0.000	0.000	0.0000
10.700	0.0625	0.1363	1.220	0.012	0.225	0.146	0.008	-0.122	-0.010	0.1270
12.900	0.0260	0.0521	0.823	0.020	0.272	0.038	0.004	0.043	-0.017	0.1100
14.050	0.0211	0.0287	0.677	0.015	0.274	0.016	0.012	0.056	-0.011	0.0770
16.040	0.0251	0.0225	0.627	0.020	0.169	0.013	0.014	0.062	-0.011	0.0520
18.030	0.0245	0.0210	0.570	0.022	0.148	0.012	0.011	0.015	-0.014	0.0110
20.020	0.0239	0.0196	0.513	0.022	0.137	0.011	0.011	-0.022	-0.014	-0.0200
22.010	0.0233	0.0182	0.457	0.022	0.116	0.010	0.012	-0.069	-0.014	-0.0620
24.000	0.0227	0.0167	0.400	0.021	0.095	0.009	0.012	-0.116	-0.014	-0.1030
26.000	0.0253	0.0148	0.358	0.030	-0.149	0.009	0.008	-0.141	-0.014	-0.1490
26.900	0.0237	0.0114	0.322	0.032	-0.137	0.008	0.011	-0.116	-0.016	-0.1410
28.750	0.0235	0.0111	0.319	0.032	-0.122	0.008	0.013	-0.107	-0.017	-0.1330
30.600	0.0235	0.0111	0.319	0.032	-0.102	0.008	0.013	-0.087	-0.017	-0.1130
32.450	0.0235	0.0111	0.319	0.032	-0.082	0.008	0.013	-0.067	-0.017	-0.0930
34.300	0.0235	0.0111	0.319	0.032	-0.062	0.008	0.013	-0.047	-0.017	-0.0730
36.200	0.0233	0.0108	0.320	0.033	-0.045	0.008	0.010	-0.047	-0.019	-0.0670
38.100	0.0228	0.0103	0.321	0.035	0.000	0.007	0.003	-0.036	-0.022	-0.0440
39.320	0.0222	0.0095	0.320	0.038	0.025	0.007	-0.006	-0.037	-0.027	-0.0350
40.000	0.0289	0.0087	0.321	0.041	-0.089	0.007	-0.014	-0.008	-0.031	-0.0330
42.000	0.0350	0.0077	0.320	0.044	-0.170	0.006	-0.024	0.027	-0.036	-0.0170
43.800	0.0321	0.0060	0.312	0.050	-0.122	0.005	-0.039	0.046	-0.045	0.0230
45.600	0.0284	0.0039	0.301	0.056	-0.066	0.004	-0.052	0.073	-0.054	0.0670
48.000	0.0268	0.0030	0.296	0.059	-0.020	0.003	-0.058	0.107	-0.059	0.1090

Table 3. Blade 2 Upper Surface Pressure Transducers

$\frac{z}{x/c}$	$\frac{r}{R}$	0.3250	0.5000	0.5830	0.6660	0.7300	0.7500	0.8050	0.8650	0.9025	0.9400	0.9600
0.1												
0.2											P605	
0.5												
1.3												
2.5												
2.6					P603							
2.7						P604						
3.0							P606					
3.2												
3.7								P618				
4.0												
5.2									P615	P616		
5.8												
6.0		P601	P602									
6.7												
7.0								P607			P619	
8.0												
15.0											P620	
20.0								P608				
25.0												
35.0											P621	
40.0											P622	
50.0												
55.0											P611	
70.0											P623	
80.0											P613	
82.0											P614	
100.0												

Table 4. Blade 4 Upper Surface Pressure Transducers

% x/C	r/R	0.3250	0.5000	0.5830	0.6850	0.7300	0.7500	0.8050	0.8650	0.9025	0.9400	0.9600
0.1										P647		
0.2												
0.5						P627	P637					
1.3												
2.5												
2.6										P638		
2.7											P648	
3.0												
3.2												
3.7												
4.0												
5.2												
5.8												
6.0												
6.7												
7.0										P639		P649
8.0												
15.0										P640		P650
20.0												
25.0										P631	P641	P651
35.0										P632	P642	P652
40.0												
50.0										P633		P653
55.0												
70.0										P644		P654
80.0										P645		P655
82.0										P636	P646	P656
100.0												

Table 5. Blade 2 Lower Surface Pressure Transducers

$\% x/C$	r/R	0.3250	0.5000	0.5830	0.6650	0.7300	0.7500	0.8050	0.8650	0.9026	0.9400	0.9600
0.1												
0.2												
0.5												
1.3												
2.5												
2.6												
2.7												
3.0		P659					P660					
3.2												
3.7												
4.0												
5.2												
5.8												
6.0	P657	P658										
6.7												
7.0												
8.0												
15.0												
20.0												
25.0												
35.0								P664				P672
40.0												
50.0									P665			P673
55.0												
70.0												
80.0												
82.0												P674
100.0												

Table 6. Blade 4 Lower Surface Pressure Transducers

$\frac{z}{x}/C$	r/R	0.3250	0.5000	0.5830	0.6850	0.7300	0.7500	0.8050	0.8650	0.9025	0.9400	0.9600
0.1												
0.2												
0.5												
1.3												
2.5												
2.6												
2.7												
3.0						P675	P681					
3.2												
3.7												
4.0												
5.2												
5.8												
6.0												
6.7						P676	P682					
7.0												
8.0												
15.0												
20.0						P677	P683					
25.0												
35.0						P678	P684					
40.0												
50.0						P679	P685					
55.0												
70.0												
80.0												
82.0								P686	P692			
100.0												

Table 7. LV SYSTEM ERROR SUMMARY

Error source	Bias percent	Random percent
Cross beam angle measurement	0.48	None
Diverging fringes	A	A
Time jitter	N/A	N/A
Clock synchronization	0.26	+/-0.26
Quantization	A	+/-0.26
Velocity bias	B	B
Bragg bias	B	B
Velocity gradient	B	B
Particle lag	+/-0.10	B
Total	0.84%	0.37%
System Error		.92%
A - NOT MEASURED, B - NEGLIGIBLE		

Table 8. ROTOR PARAMETERS DURING BLADE PRESSURE MEASUREMENT

Tip Path Plane Angle of Attack, α , deg	-5.893
Collective Angle, A_0 , deg	12.96
Lateral Feathering, A_1 , deg	-0.973
Longitudinal Feathering, B_1 , deg	10.81
Blade Coning Angle, deg	2.69
Blade Lag Angle, (mean), deg	1.0
Advance Ratio, μ_∞ , non-dimensional	0.371
Uncorrected Propulsive Force, C_X	0.000570
Corrected Propulsive Force, C_X	0.000689
Rotor Thrust, C_T , non-dimensional	0.008175
Rotor Power, C_P , non-dimensional	0.000625
Tunnel Velocity, V , knots	154.73
Tip Speed, V_{tip} , ft/sec	703.80
Speed of Sound, ft/sec	1139.41
Ambient Temperature, deg Fahrenheit	80.27
Tip Mach Number, M_{tip} , non-dimensional	0.617

Table 9. NOMINAL ROTOR PARAMETERS DURING LV MEASUREMENT

Tip Path Plane Angle of Attack, α , deg	-5.879
Collective Angle, A_0 , deg	14.03
Lateral Feathering, A_1 , deg	-0.86
Longitudinal Feathering, B_1 , deg	11.31
Blade Coning Angle, deg	2.69
Blade Lag Angle, (mean), deg	1.0
Advance Ratio, μ_∞ , non-dimensional	0.370
Uncorrected Propulsive Force, C_X	0.000574
Corrected Propulsive Force, C_X	0.000694
Rotor Thrust, C_T , non-dimensional	0.008090
Rotor Power, C_P , non-dimensional	0.000633
Tunnel Velocity, V , knots	155.86
Tip Speed, V_{tip} , ft/sec	710.91
Tip Mach Number, M_{tip} , non-dimensional	0.617

Table 10. Inflow Velocity Summary

Ψ	r/R	$\bar{\mu}_i$	σ_μ	Number	$\bar{\lambda}_i$	σ_λ	Number
0.00	0.20	0.0278	0.0139	2920	-0.0038	0.0072	3204
0.00	0.32	0.0251	0.0126	2977	-0.0218	0.0100	3387
0.00	0.50	0.0168	0.0121	3048	-0.0281	0.0080	3411
0.00	0.58	0.0147	0.0125	3175	-0.0286	0.0073	3360
0.00	0.69	0.0130	0.0129	3201	-0.0267	0.0069	3317
0.00	0.73	0.0118	0.0119	3155	-0.0267	0.0078	3112
0.00	0.75	0.0120	0.0120	2411	-0.0271	0.0082	3292
0.00	0.86	0.0115	0.0164	2894	-0.0340	0.0087	3985
0.00	0.90	0.0105	0.0161	2966	-0.0358	0.0143	4009
0.00	0.94	0.0091	0.0147	2622	-0.0357	0.0096	3781
0.00	0.96	0.0117	0.0155	2837	-0.0366	0.0110	3305
0.00	1.00	0.0092	0.0144	3068	-0.0362	0.0111	3317
0.00	1.10	0.0056	0.0099	1660	-0.0349	0.0082	2723
0.00	0.20	0.0201	0.0119	3300	-0.0064	0.0062	3759
30.00	0.32	0.0206	0.0090	3345	-0.0172	0.0076	3832
30.00	0.50	0.0193	0.0079	3404	-0.0260	0.0084	3810
30.00	0.58	0.0167	0.0082	3474	-0.0254	0.0091	3746
30.00	0.69	0.0169	0.0082	3397	-0.0278	0.0088	3739
30.00	0.73	0.0148	0.0080	3374	-0.0265	0.0091	3656
30.00	0.75	0.0148	0.0083	3338	-0.0274	0.0093	3716
30.00	0.81	0.0131	0.0118	3070	-0.0273	0.0102	3486
30.00	0.86	0.0110	0.0098	3367	-0.0288	0.0100	3578
30.00	0.90	0.0081	0.0118	2964	-0.0288	0.0094	3606
30.00	0.94	0.0070	0.0117	2994	-0.0299	0.0088	3773
30.00	0.96	0.0060	0.0121	3016	-0.0292	0.0086	3771
30.00	1.00	0.0048	0.0108	3209	-0.0272	0.0085	3694
30.00	1.10	0.0022	0.0121	2094	-0.0262	0.0063	3740
60.00	0.20	0.0159	0.0107	3245	-0.0046	0.0051	3652
60.00	0.32	0.0182	0.0100	3391	-0.0122	0.0069	3746
60.00	0.50	0.0125	0.0099	3406	-0.0041	0.0068	3549
60.00	0.58	0.0169	0.0082	3559	-0.0062	0.0067	3858
60.00	0.69	0.0198	0.0085	3577	-0.0007	0.0067	3810
60.00	0.73	0.0191	0.0080	3541	0.0024	0.0062	3750
60.00	0.75	0.0193	0.0082	3525	0.0039	0.0057	3750
60.00	0.81	0.0172	0.0078	3611	0.0070	0.0055	3797
60.00	0.86	0.0156	0.0073	3593	0.0097	0.0055	3797
60.00	0.90	0.0142	0.0069	3623	0.0115	0.0056	3842
60.00	0.96	0.0098	0.0065	3682	0.0149	0.0052	3877
60.00	1.00	0.0076	0.0061	3662	0.0173	0.0041	3873
60.00	1.10	0.0037	0.0058	3741	0.0188	0.0036	3894

Table 10. Continued

Ψ	r/R	$\bar{\mu}_i$	σ_{μ}	Number	$\bar{\lambda}_i$	σ_{λ}	Number
90.00	0.20	0.0149	0.0077	3480	-0.0020	0.0039	3894
90.00	0.32	0.0150	0.0079	3537	-0.0010	0.0041	3885
90.00	0.50	0.0102	0.0075	3640	0.0076	0.0044	3931
90.00	0.58	0.0129	0.0080	3616	0.0139	0.0040	3899
90.00	0.69	0.0104	0.0080	3618	0.0216	0.0039	3883
90.00	0.73	0.0063	0.0074	3566	0.0242	0.0044	3828
90.00	0.75	0.0050	0.0072	3562	0.0248	0.0047	3769
90.00	0.81	0.0029	0.0066	3589	0.0263	0.0052	3862
90.00	0.86	0.0003	0.0067	3639	0.0252	0.0058	3884
90.00	0.90	-0.0020	0.0064	3664	0.0214	0.0051	3921
90.00	0.96	-0.0013	0.0059	3747	0.0146	0.0035	3981
90.00	1.00	-0.0014	0.0058	3727	0.0113	0.0026	4005
90.00	1.10	-0.0045	0.0055	3764	0.0071	0.0021	4034
120.00	0.20	0.0096	0.0068	3492	0.0028	0.0035	3874
120.00	0.32	0.0118	0.0074	3578	0.0024	0.0049	3913
120.00	0.50	0.0010	0.0079	3598	0.0128	0.0039	3783
120.00	0.58	0.0005	0.0072	3698	0.0170	0.0052	3896
120.00	0.69	-0.0004	0.0065	3651	0.0207	0.0056	3889
120.00	0.73	-0.0024	0.0065	3652	0.0216	0.0052	3928
120.00	0.75	-0.0031	0.0064	3641	0.0216	0.0052	3956
120.00	0.81	-0.0062	0.0058	3634	0.0199	0.0055	3959
120.00	0.86	-0.0087	0.0055	3637	0.0167	0.0052	3983
120.00	0.90	-0.0097	0.0053	3674	0.0131	0.0041	4007
120.00	0.94	-0.0092	0.0053	3662	0.0108	0.0034	4016
120.00	0.96	-0.0098	0.0055	3640	0.0099	0.0030	3998
120.00	1.00	-0.0097	0.0058	3666	0.0079	0.0026	4006
120.00	1.10	-0.0265	0.0066	3656	0.0160	0.0030	3853
150.00	0.20	0.0033	0.0067	3401	0.0064	0.0047	3611
150.00	0.32	0.0044	0.0068	3361	0.0040	0.0057	3727
150.00	0.50	0.0056	0.0070	3363	0.0070	0.0065	3266
150.00	0.58	0.0024	0.0069	3393	0.0105	0.0065	3575
150.00	0.69	-0.0223	0.0071	3506	0.0237	0.0058	3659
150.00	0.73	-0.0235	0.0071	3486	0.0237	0.0051	3633
150.00	0.75	-0.0246	0.0068	3484	0.0239	0.0052	3631
150.00	0.81	-0.0271	0.0066	3447	0.0235	0.0046	3620
150.00	0.86	-0.0296	0.0062	3448	0.0233	0.0043	3642
150.00	0.90	-0.0305	0.0061	3471	0.0226	0.0041	3657
150.00	0.94	-0.0306	0.0059	3505	0.0217	0.0039	3677
150.00	0.96	-0.0312	0.0064	3452	0.0213	0.0038	3699
150.00	1.00	-0.0314	0.0062	3512	0.0197	0.0037	3693
150.00	1.10	-0.0290	0.0058	3501	0.0171	0.0035	3744

Table 10. Continued

Ψ	r/R	$\bar{\mu}_i$	σ_μ	Number	$\bar{\lambda}_i$	σ_λ	Number
180.00	0.20	-0.0013	0.0069	3300	0.0118	0.0049	3512
180.00	0.32	-0.0005	0.0073	3396	0.0077	0.0058	3675
180.00	0.50	-0.0013	0.0070	3500	0.0092	0.0101	3635
180.00	0.58	-0.0205	0.0080	3423	0.0198	0.0103	3476
180.00	0.69	-0.0237	0.0082	3367	0.0203	0.0086	3538
180.00	0.73	-0.0245	0.0083	3377	0.0204	0.0076	3586
180.00	0.75	-0.0254	0.0082	3429	0.0204	0.0072	3581
180.00	0.81	-0.0267	0.0080	3413	0.0206	0.0062	3569
180.00	0.86	-0.0271	0.0075	3403	0.0203	0.0051	3587
180.00	0.90	-0.0277	0.0082	3365	0.0204	0.0050	3183
180.00	0.94	-0.0277	0.0081	3348	0.0201	0.0050	3520
180.00	0.96	-0.0295	0.0075	3404	0.0196	0.0048	3560
180.00	1.00	-0.0301	0.0078	3360	0.0190	0.0048	3400
180.00	1.10	-0.0309	0.0067	3363	0.0173	0.0044	3640
210.00	0.20	-0.0066	0.0059	3452	0.0135	0.0048	3718
210.00	0.32	-0.0040	0.0075	3415	0.0077	0.0069	3713
210.00	0.50	-0.0040	0.0099	3347	0.0072	0.0133	3641
210.00	0.58	-0.0058	0.0103	3388	0.0073	0.0140	3628
210.00	0.69	-0.0226	0.0113	3352	0.0166	0.0120	3417
210.00	0.73	-0.0229	0.0110	3404	0.0174	0.0125	3491
210.00	0.75	-0.0224	0.0111	3400	0.0177	0.0121	3494
210.00	0.81	-0.0235	0.0095	3163	0.0167	0.0081	3279
210.00	0.86	-0.0237	0.0097	3282	0.0186	0.0085	3441
210.00	0.90	-0.0250	0.0089	3373	0.0187	0.0070	3446
210.00	0.94	-0.0252	0.0082	3341	0.0186	0.0061	3461
210.00	0.96	-0.0255	0.0080	3350	0.0184	0.0056	3462
210.00	1.00	-0.0262	0.0073	3323	0.0183	0.0054	3428
210.00	1.10	-0.0270	0.0070	3411	0.0166	0.0049	3573
240.00	0.20	-0.0025	0.0060	3385	0.0147	0.0047	3646
240.00	0.32	-0.0040	0.0088	3367	0.0099	0.0090	3649
240.00	0.50	-0.0025	0.0131	3337	0.0038	0.0127	3631
240.00	0.58	-0.0001	0.0138	3441	0.0026	0.0141	3679
240.00	0.69	0.0012	0.0143	3415	0.0026	0.0144	3676
240.00	0.73	0.0022	0.0140	3428	0.0027	0.0139	3653
240.00	0.75	0.0013	0.0135	3432	0.0032	0.0135	3652
240.00	0.81	0.0036	0.0131	3349	0.0036	0.0122	3554
240.00	0.86	0.0022	0.0124	3320	0.0051	0.0114	3527
240.00	0.90	0.0023	0.0112	3356	0.0065	0.0101	3643
240.00	0.94	0.0015	0.0100	3380	0.0075	0.0075	3562
240.00	0.96	0.0010	0.0092	3304	0.0076	0.0057	3549
240.00	1.00	-0.0006	0.0078	3254	0.0077	0.0036	3433
240.00	1.10	-0.0225	0.0072	3390	0.0160	0.0050	3397

Table 10. Concluded

Ψ	r/R	$\bar{\mu}_i$	σ_{μ}	Number	$\bar{\lambda}_i$	σ_{λ}	Number
270.00	0.20	-0.0007	0.0088	2948	0.0140	0.0046	3096
270.00	0.32	0.0024	0.0127	2991	0.0092	0.0089	3284
270.00	0.50	0.0072	0.0146	3062	0.0011	0.0112	3318
270.00	0.58	0.0086	0.0147	3065	-0.0026	0.0107	3324
270.00	0.69	0.0069	0.0137	2965	-0.0036	0.0102	3141
270.00	0.73	0.0088	0.0137	2966	-0.0033	0.0108	3173
270.00	0.75	0.0071	0.0131	3017	-0.0028	0.0102	3214
270.00	0.81	0.0109	0.0141	3214	-0.0055	0.0130	3512
270.00	0.86	0.0106	0.0135	3216	-0.0029	0.0137	3462
270.00	0.90	0.0077	0.0128	3383	-0.0013	0.0144	3568
270.00	0.94	0.0073	0.0111	3398	0.0007	0.0127	3606
270.00	1.00	0.0044	0.0095	3356	0.0046	0.0085	3507
270.00	1.10	-0.0002	0.0089	2974	0.0102	0.0035	3239
300.00	0.20	0.0093	0.0099	3175	0.0161	0.0043	3253
300.00	0.32	0.0069	0.0128	3111	0.0092	0.0045	3209
300.00	0.50	0.0138	0.0150	3180	0.0040	0.0128	3360
300.00	0.58	0.0162	0.0152	2949	-0.0009	0.0105	3325
300.00	0.69	0.0147	0.0140	2927	-0.0066	0.0081	3314
300.00	0.73	0.0126	0.0137	2945	-0.0068	0.0073	3317
300.00	0.75	0.0121	0.0139	2983	-0.0072	0.0069	3278
300.00	0.81	0.0148	0.0131	2868	-0.0096	0.0068	3243
300.00	0.86	0.0132	0.0135	2863	-0.0120	0.0066	3281
300.00	0.90	0.0130	0.0134	2765	-0.0144	0.0069	3258
300.00	0.94	0.0137	0.0134	2641	-0.0142	0.0068	3141
300.00	0.96	0.0153	0.0142	2270	-0.0169	0.0075	2881
300.00	1.00	0.0146	0.0148	2260	-0.0185	0.0086	2726
300.00	1.10	0.0105	0.0148	2038	-0.0063	0.0076	2266
330.00	0.20	0.0044	0.0115	2831	0.0123	0.0067	3315
330.00	0.32	0.0045	0.0093	3361	0.0045	0.0069	3424
330.00	0.50	-0.0005	0.0096	3354	-0.0031	0.0079	3335
330.00	0.58	-0.0023	0.0099	3340	-0.0062	0.0081	3195
330.00	0.69	-0.0025	0.0101	3455	-0.0104	0.0102	3157
330.00	0.73	-0.0026	0.0098	3465	-0.0094	0.0092	3137
330.00	0.75	-0.0008	0.0097	3454	-0.0092	0.0093	3166
330.00	0.81	-0.0005	0.0116	3415	-0.0075	0.0107	3067
330.00	0.86	-0.0009	0.0127	3336	-0.0086	0.0125	2507
330.00	0.90	-0.0002	0.0126	3257	-0.0113	0.0129	2521
330.00	0.94	0.0007	0.0137	3214	-0.0135	0.0136	2328
330.00	0.96	-0.0009	0.0135	3167	-0.0138	0.0128	2548
330.00	1.00	0.0001	0.0138	3010	-0.0160	0.0128	2785
330.00	1.10	-0.0014	0.0145	2753	-0.0194	0.0114	2556

Table 11. TABULATED PRESSURE DATA

P601	BLADE #2	UPPER SURFACE	P602	BLADE #2	UPPER SURFACE
x/C = 0.0600		r/R = 0.3250	x/C = 0.0600		r/R = 0.5000
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.3630E+01	-1.5488E+00	0.000	1.2869E+01	-1.4522E+00
5.625	1.3777E+01	-9.5707E-01	5.625	1.2811E+01	-1.3143E+00
11.250	1.3716E+01	-8.9299E-01	11.250	1.2643E+01	-1.2886E+00
16.875	1.3341E+01	-1.2779E+00	16.875	1.2431E+01	-1.2935E+00
22.500	1.3174E+01	-1.2978E+00	22.500	1.2160E+01	-1.3308E+00
28.125	1.3055E+01	-1.2568E+00	28.125	1.1892E+01	-1.3585E+00
33.750	1.2896E+01	-1.2610E+00	33.750	1.1652E+01	-1.3672E+00
39.375	1.2775E+01	-1.2336E+00	39.375	1.1456E+01	-1.3553E+00
45.000	1.2661E+01	-1.2095E+00	45.000	1.1268E+01	-1.3459E+00
50.625	1.2572E+01	-1.1767E+00	50.625	1.1128E+01	-1.3225E+00
56.250	1.2512E+01	-1.1364E+00	56.250	1.1059E+01	-1.2803E+00
61.875	1.2469E+01	-1.0991E+00	61.875	1.1043E+01	-1.2292E+00
67.500	1.2458E+01	-1.0550E+00	67.500	1.1080E+01	-1.1705E+00
73.125	1.2439E+01	-1.0276E+00	73.125	1.1167E+01	-1.1060E+00
78.750	1.2429E+01	-1.0068E+00	78.750	1.1264E+01	-1.0493E+00
84.375	1.2439E+01	-9.8590E-01	84.375	1.1374E+01	-9.9818E-01
90.000	1.2403E+01	-1.0008E+00	90.000	1.1460E+01	-9.6453E-01
95.625	1.2353E+01	-1.0326E+00	95.625	1.1395E+01	-9.9087E-01
101.250	1.2234E+01	-1.1146E+00	101.250	1.1148E+01	-1.0900E+00
106.875	1.2087E+01	-1.2269E+00	106.875	1.0979E+01	-1.1733E+00
112.500	1.1953E+01	-1.3514E+00	112.500	1.0826E+01	-1.2640E+00
118.125	1.1791E+01	-1.5162E+00	118.125	1.0725E+01	-1.3507E+00
123.750	1.1605E+01	-1.7288E+00	123.750	1.0634E+01	-1.4503E+00
129.375	1.1506E+01	-1.9228E+00	129.375	1.0568E+01	-1.5596E+00
135.000	1.1420E+01	-2.1514E+00	135.000	1.0492E+01	-1.6955E+00
140.625	1.1357E+01	-2.4161E+00	140.625	1.0433E+01	-1.8507E+00
146.250	1.1313E+01	-2.7308E+00	146.250	1.0369E+01	-2.0410E+00
151.875	1.1311E+01	-3.0851E+00	151.875	1.0317E+01	-2.2643E+00
157.500	1.1378E+01	-3.4550E+00	157.500	1.0320E+01	-2.5005E+00
163.125	1.1443E+01	-3.9332E+00	163.125	1.0400E+01	-2.7342E+00
168.750	1.1533E+01	-4.5145E+00	168.750	1.0385E+01	-3.0940E+00
174.375	1.1604E+01	-5.3166E+00	174.375	1.0063E+01	-3.8171E+00
180.000	1.1885E+01	-5.8776E+00	180.000	9.7444E+00	-4.7272E+00
185.625	1.2149E+01	-6.6239E+00	185.625	1.0146E+01	-5.0090E+00
191.250	1.2301E+01	-8.0233E+00	191.250	1.0706E+01	-5.0864E+00
196.875	1.2580E+01	-9.2956E+00	196.875	1.0792E+01	-5.8973E+00
202.500	1.2828E+01	-1.1166E+01	202.500	1.1059E+01	-6.5371E+00
208.125	1.3106E+01	-1.3374E+01	208.125	1.1330E+01	-7.2552E+00
213.750	1.3196E+01	-1.9680E+01	213.750	1.1683E+01	-7.8098E+00
219.375	1.3090E+01	-3.8127E+01	219.375	1.1996E+01	-8.4620E+00
225.000	1.3132E+01	-7.5362E+01	225.000	1.2440E+01	-8.4318E+00
230.625	1.3449E+01	-1.4631E+02	230.625	1.2809E+01	-8.3466E+00
236.250	1.3741E+01	-5.0834E+02	236.250	1.3192E+01	-7.6052E+00
241.875	1.3747E+01	-2.1888E+04	241.875	1.3038E+01	-1.0707E+01
247.500	1.3787E+01	-3.7581E+02	247.500	1.2960E+01	-1.3766E+01
253.125	1.3816E+01	-1.2487E+02	253.125	1.3432E+01	-1.0296E+01
258.750	1.3821E+01	-7.3863E+01	258.750	1.3569E+01	-9.7296E+00
264.375	1.3837E+01	-5.5169E+01	264.375	1.3682E+01	-8.8107E+00
270.000	1.3859E+01	-4.8272E+01	270.000	1.3695E+01	-8.8458E+00
275.625	1.3880E+01	-4.9459E+01	275.625	1.3747E+01	-7.8055E+00
281.250	1.3892E+01	-6.1700E+01	281.250	1.3701E+01	-7.8625E+00
286.875	1.3919E+01	-9.5305E+01	286.875	1.3673E+01	-7.2808E+00
292.500	1.3914E+01	-2.7320E+02	292.500	1.3616E+01	-6.7955E+00
298.125	1.3919E+01	-1.4167E+04	298.125	1.3593E+01	-5.8253E+00
303.750	1.3915E+01	-3.3668E+02	303.750	1.3444E+01	-5.8077E+00
309.375	1.3897E+01	-6.5035E+01	309.375	1.3290E+01	-5.5715E+00
315.000	1.3862E+01	-2.6411E+01	315.000	1.3177E+01	-5.0098E+00
320.625	1.3831E+01	-1.3858E+01	320.625	1.2994E+01	-4.7228E+00
326.250	1.3787E+01	-8.6984E+00	326.250	1.2984E+01	-3.8588E+00
331.875	1.3834E+01	-4.9010E+00	331.875	1.3007E+01	-3.0958E+00
337.500	1.3841E+01	-3.2385E+00	337.500	1.2956E+01	-2.6975E+00
343.125	1.3828E+01	-2.3676E+00	343.125	1.2747E+01	-2.5680E+00
348.750	1.3726E+01	-2.1714E+00	348.750	1.2665E+01	-2.2785E+00
354.375	1.3595E+01	-2.0741E+00	354.375	1.2832E+01	-1.7338E+00
360.000	1.3630E+01	-1.5492E+00	360.000	1.2869E+01	-1.4524E+00

Table 11 (Continued). TABULATED PRESSURE DATA

P603	BLADE #2	UPPER SURFACE r/R = 0.5833	CP	P604	BLADE #2	UPPER SURFACE r/R = 0.7500	CP
x/C = 0.0260				x/C = 0.0260			
AZIMUTH	PSIA			AZIMUTH	PSIA		
0.000	1.1599E+01	-2.0455E+00		0.000	9.7520E+00	-2.0976E+00	
5.625	1.1634E+01	-1.7883E+00		5.625	1.0446E+01	-1.6137E+00	
11.250	1.1654E+01	-1.5845E+00		11.250	1.0691E+01	-1.3804E+00	
16.875	1.1494E+01	-1.5144E+00		16.875	1.0983E+01	-1.1650E+00	
22.500	1.1410E+01	-1.4163E+00		22.500	1.1142E+01	-1.0247E+00	
28.125	1.1216E+01	-1.3847E+00		28.125	1.1196E+01	-9.3653E-01	
33.750	1.1116E+01	-1.3194E+00		33.750	1.1253E+01	-8.6008E-01	
39.375	1.0970E+01	-1.2837E+00		39.375	1.1297E+01	-7.9790E-01	
45.000	1.0987E+01	-1.1966E+00		45.000	1.1503E+01	-7.0324E-01	
50.625	1.1005E+01	-1.1243E+00		50.625	1.1703E+01	-6.2182E-01	
56.250	1.1206E+01	-1.0039E+00		56.250	1.2015E+01	-5.2353E-01	
61.875	1.1329E+01	-9.2428E-01		61.875	1.2141E+01	-4.7700E-01	
67.500	1.1644E+01	-7.9707E-01		67.500	1.2605E+01	-3.6175E-01	
73.125	1.1954E+01	-6.8429E-01		73.125	1.2627E+01	-3.4914E-01	
78.750	1.2382E+01	-5.4641E-01		78.750	1.2697E+01	-3.2877E-01	
84.375	1.2339E+01	-5.5270E-01		84.375	1.3075E+01	-2.4652E-01	
90.000	1.2303E+01	-5.6120E-01		90.000	1.3265E+01	-2.0612E-01	
95.625	1.2389E+01	-5.3833E-01		95.625	1.3390E+01	-1.8062E-01	
101.250	1.2397E+01	-5.4219E-01		101.250	1.3233E+01	-2.1549E-01	
106.875	1.2297E+01	-5.8215E-01		106.875	1.3220E+01	-2.2179E-01	
112.500	1.1837E+01	-7.3825E-01		112.500	1.3276E+01	-2.1451E-01	
118.125	1.1399E+01	-9.0211E-01		118.125	1.3166E+01	-2.4567E-01	
123.750	1.1102E+01	-1.0381E+00		123.750	1.3694E+01	-1.3104E-01	
129.375	1.0922E+01	-1.1528E+00		129.375	1.4359E+01	-2.5623E-02	
135.000	1.0731E+01	-1.2903E+00		135.000	1.4022E+01	-5.9417E-02	
140.625	1.0627E+01	-1.4176E+00		140.625	1.3929E+01	-8.7599E-02	
146.250	1.0583E+01	-1.5432E+00		146.250	1.3612E+01	-1.8408E-01	
151.875	1.0396E+01	-1.7580E+00		151.875	1.3415E+01	-2.5687E-01	
157.500	1.0060E+01	-2.0890E+00		157.500	1.3038E+01	-4.0038E-01	
163.125	9.9101E+00	-2.3836E+00		163.125	1.2677E+01	-5.6157E-01	
168.750	9.7435E+00	-2.7490E+00		168.750	1.2187E+01	-8.0095E-01	
174.375	9.5976E+00	-3.1776E+00		174.375	1.1793E+01	-1.0430E+00	
180.000	9.4396E+00	-3.7082E+00		180.000	1.1343E+01	-1.3563E+00	
185.625	9.3119E+00	-4.3300E+00		185.625	1.0939E+01	-1.7059E+00	
191.250	9.2403E+00	-5.0346E+00		191.250	1.0468E+01	-2.1612E+00	
196.875	9.2413E+00	-5.8097E+00		196.875	1.0068E+01	-2.6599E+00	
202.500	9.2113E+00	-6.7888E+00		202.500	9.6157E+00	-3.2893E+00	
208.125	9.2165E+00	-7.9202E+00		208.125	9.2500E+00	-3.9669E+00	
213.750	9.1922E+00	-9.3326E+00		213.750	8.9394E+00	-4.7114E+00	
219.375	9.3685E+00	-1.0588E+01		219.375	8.7353E+00	-5.4648E+00	
225.000	9.7875E+00	-1.1378E+01		225.000	8.6427E+00	-6.1892E+00	
230.625	1.0383E+01	-1.1557E+01		230.625	8.7621E+00	-6.7148E+00	
236.250	1.0796E+01	-1.2021E+01		236.250	8.9362E+00	-7.1573E+00	
241.875	1.1197E+01	-1.2243E+01		241.875	9.1925E+00	-7.4299E+00	
247.500	1.1556E+01	-1.2249E+01		247.500	9.4274E+00	-7.6381E+00	
253.125	1.1891E+01	-1.1915E+01		253.125	9.7513E+00	-7.5759E+00	
258.750	1.2182E+01	-1.1309E+01		258.750	9.9903E+00	-7.5068E+00	
264.375	1.2449E+01	-1.0353E+01		264.375	1.0219E+01	-7.3061E+00	
270.000	1.2635E+01	-9.4455E+00		270.000	1.0354E+01	-7.1278E+00	
275.625	1.2811E+01	-8.2737E+00		275.625	1.0432E+01	-6.9201E+00	
281.250	1.3079E+01	-6.4148E+00		281.250	1.0477E+01	-6.6498E+00	
286.875	1.3149E+01	-5.5722E+00		286.875	1.0536E+01	-6.2565E+00	
292.500	1.3054E+01	-5.4479E+00		292.500	1.0627E+01	-5.7397E+00	
298.125	1.3060E+01	-4.7815E+00		298.125	1.0866E+01	-4.9747E+00	
303.750	1.2894E+01	-4.7274E+00		303.750	1.1095E+01	-4.2527E+00	
309.375	1.2784E+01	-4.3912E+00		309.375	1.1254E+01	-3.6690E+00	
315.000	1.2671E+01	-4.0342E+00		315.000	1.1205E+01	-3.3640E+00	
320.625	1.2390E+01	-4.0402E+00		320.625	1.1137E+01	-3.0871E+00	
326.250	1.1880E+01	-4.3779E+00		326.250	1.0908E+01	-2.9671E+00	
331.875	1.1866E+01	-3.7559E+00		331.875	1.0688E+01	-2.8274E+00	
337.500	1.1194E+01	-4.1199E+00		337.500	1.0333E+01	-2.7809E+00	
343.125	1.1073E+01	-3.6878E+00		343.125	1.0084E+01	-2.6504E+00	
348.750	1.1475E+01	-2.7908E+00		348.750	9.2532E+00	-2.8551E+00	
354.375	1.1349E+01	-2.5456E+00		354.375	8.5831E+00	-2.9189E+00	
360.000	1.1599E+01	-2.0458E+00		360.000	9.7520E+00	-2.0978E+00	

Table 11 (Continued). TABULATED PRESSURE DATA

P605 x/C = 0.0020	BLADE #2	UPPER SURFACE r/R = 0.8650	P606 x/C = 0.0270	BLADE #2	UPPER SURFACE r/R = 0.8650
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	8.7701E+00	-1.9209E+00	0.000	7.9089E+00	-2.2225E+00
5.625	1.0146E+01	-1.3251E+00	5.625	8.4148E+00	-1.8835E+00
11.250	1.1452E+01	-8.3576E-01	11.250	8.9480E+00	-1.5824E+00
16.875	1.2396E+01	-5.1460E-01	16.875	9.3303E+00	-1.3636E+00
22.500	1.3107E+01	-2.9630E-01	22.500	9.5839E+00	-1.2068E+00
28.125	1.3768E+01	-1.1776E-01	28.125	9.8038E+00	-1.0782E+00
33.750	1.4245E+01	-1.9833E-03	33.750	9.9112E+00	-9.9172E-01
39.375	1.4740E+01	1.0511E-01	39.375	1.0073E+01	-9.0459E-01
45.000	1.5168E+01	1.8839E-01	45.000	1.0244E+01	-8.2662E-01
50.625	1.5708E+01	2.8712E-01	50.625	1.0562E+01	-7.2909E-01
56.250	1.6006E+01	3.3320E-01	56.250	1.0705E+01	-6.7523E-01
61.875	1.6528E+01	4.1915E-01	61.875	1.1107E+01	-5.7997E-01
67.500	1.6397E+01	3.8475E-01	67.500	1.1231E+01	-5.4294E-01
73.125	1.6199E+01	3.4234E-01	73.125	1.1036E+01	-5.6631E-01
78.750	1.6743E+01	4.3180E-01	78.750	1.1313E+01	-5.1016E-01
84.375	1.7090E+01	4.8765E-01	84.375	1.1695E+01	-4.4011E-01
90.000	1.7504E+01	5.5729E-01	90.000	1.2060E+01	-3.7614E-01
95.625	1.7912E+01	6.2898E-01	95.625	1.2222E+01	-3.4947E-01
101.250	1.7527E+01	5.6765E-01	101.250	1.2167E+01	-3.6202E-01
106.875	1.8510E+01	7.4900E-01	106.875	1.3607E+01	-1.1393E-01
112.500	1.9508E+01	9.4357E-01	112.500	1.4562E+01	5.5240E-02
118.125	1.9030E+01	8.8014E-01	118.125	1.4271E+01	3.0895E-03
123.750	1.9127E+01	9.2699E-01	123.750	1.4483E+01	4.3637E-02
129.375	1.8833E+01	9.0408E-01	129.375	1.4320E+01	1.2962E-02
135.000	1.8738E+01	9.2421E-01	135.000	1.4334E+01	1.6491E-02
140.625	1.8399E+01	8.9670E-01	140.625	1.4139E+01	-2.5013E-02
146.250	1.8130E+01	8.8496E-01	146.250	1.3970E+01	-6.4866E-02
151.875	1.7641E+01	8.2057E-01	151.875	1.3610E+01	-1.5615E-01
157.500	1.7223E+01	7.6707E-01	157.500	1.3300E+01	-2.4659E-01
163.125	1.6636E+01	6.5972E-01	163.125	1.2857E+01	-3.8684E-01
168.750	1.6068E+01	5.4090E-01	168.750	1.2444E+01	-5.3977E-01
174.375	1.5339E+01	3.4991E-01	174.375	1.1955E+01	-7.4156E-01
180.000	1.4637E+01	1.3421E-01	180.000	1.1515E+01	-9.5931E-01
185.625	1.3850E+01	-1.5415E-01	185.625	1.1057E+01	-1.2202E+00
191.250	1.3127E+01	-4.7009E-01	191.250	1.0681E+01	-1.4907E+00
196.875	1.2308E+01	-8.8949E-01	196.875	1.0288E+01	-1.8128E+00
202.500	1.1431E+01	-1.4158E+00	202.500	9.9282E+00	-2.1693E+00
208.125	1.0429E+01	-2.1057E+00	208.125	9.5391E+00	-2.5956E+00
213.750	9.4285E+00	-2.9146E+00	213.750	9.2449E+00	-3.0255E+00
219.375	8.4042E+00	-3.8694E+00	219.375	9.0033E+00	-3.4731E+00
225.000	7.5841E+00	-4.8162E+00	225.000	8.9020E+00	-3.8646E+00
230.625	6.9559E+00	-5.7256E+00	230.625	8.8891E+00	-4.2010E+00
236.250	6.6091E+00	-6.4749E+00	236.250	8.9995E+00	-4.4503E+00
241.875	6.4593E+00	-7.0700E+00	241.875	9.1327E+00	-4.6452E+00
247.500	6.5564E+00	-7.4050E+00	247.500	9.3205E+00	-4.7460E+00
253.125	6.7934E+00	-7.5270E+00	253.125	9.5269E+00	-4.7692E+00
258.750	7.0808E+00	-7.4952E+00	258.750	9.7167E+00	-4.7411E+00
264.375	7.2730E+00	-7.4528E+00	264.375	9.8520E+00	-4.6995E+00
270.000	7.3905E+00	-7.3806E+00	270.000	9.9570E+00	-4.6207E+00
275.625	7.3317E+00	-7.3903E+00	275.625	9.9830E+00	-4.5597E+00
281.250	7.1970E+00	-7.3741E+00	281.250	9.9588E+00	-4.4882E+00
286.875	6.9740E+00	-7.3453E+00	286.875	9.9129E+00	-4.3800E+00
292.500	7.0904E+00	-6.8919E+00	292.500	9.8903E+00	-4.1982E+00
298.125	7.3958E+00	-6.2212E+00	298.125	9.9862E+00	-3.8715E+00
303.750	7.6110E+00	-5.6270E+00	303.750	1.0054E+01	-3.5576E+00
309.375	8.0831E+00	-4.8418E+00	309.375	1.0066E+01	-3.2864E+00
315.000	8.4184E+00	-4.2144E+00	315.000	1.0038E+01	-3.0451E+00
320.625	8.3664E+00	-3.8950E+00	320.625	9.7952E+00	-2.9497E+00
326.250	8.0594E+00	-3.7420E+00	326.250	9.4560E+00	-2.8984E+00
331.875	7.7828E+00	-3.5630E+00	331.875	9.0822E+00	-2.8476E+00
337.500	7.6505E+00	-3.3120E+00	337.500	8.7306E+00	-2.7703E+00
343.125	7.6663E+00	-3.0115E+00	343.125	8.3873E+00	-2.6818E+00
348.750	7.7535E+00	-2.7124E+00	348.750	8.0638E+00	-2.5830E+00
354.375	8.0418E+00	-2.3715E+00	354.375	7.8446E+00	-2.4468E+00
360.000	8.7701E+00	-1.9210E+00	360.000	7.9089E+00	-2.2227E+00

Table 11 (Continued). TABULATED PRESSURE DATA

P607 x/C = 0.0700	BLADE #2 AZIMUTH	UPPER SURFACE r/R = 0.8650 PSIA	CP	P608 x/C = 0.1500	BLADE #2 AZIMUTH	UPPER SURFACE r/R = 0.8650 PSIA	CP
0.000	1.2136E+01	-7.4205E-01		0.000	1.0683E+01	-1.2509E+00	
5.625	1.2297E+01	-6.3129E-01		5.625	1.0685E+01	-1.1513E+00	
11.250	1.2410E+01	-5.5011E-01		11.250	1.0647E+01	-1.0756E+00	
16.875	1.2292E+01	-5.4325E-01		16.875	1.0473E+01	-1.0472E+00	
22.500	1.2187E+01	-5.3413E-01		22.500	1.0250E+01	-1.0347E+00	
28.125	1.2260E+01	-4.8323E-01		28.125	1.0038E+01	-1.0216E+00	
33.750	1.2256E+01	-4.5623E-01		33.750	9.7565E+00	-1.0271E+00	
39.375	1.2102E+01	-4.6569E-01		39.375	9.2778E+00	-1.0767E+00	
45.000	1.1971E+01	-4.7063E-01		45.000	8.6970E+00	-1.1455E+00	
50.625	1.2026E+01	-4.4008E-01		50.625	8.0602E+00	-1.2231E+00	
56.250	1.2112E+01	-4.0745E-01		56.250	7.3913E+00	-1.3055E+00	
61.875	1.2167E+01	-3.8464E-01		61.875	7.1507E+00	-1.3092E+00	
67.500	1.2126E+01	-3.8212E-01		67.500	7.3177E+00	-1.2456E+00	
73.125	1.2059E+01	-3.8640E-01		73.125	7.3811E+00	-1.2095E+00	
78.750	1.2271E+01	-3.4407E-01		78.750	7.3979E+00	-1.1893E+00	
84.375	1.2461E+01	-3.0829E-01		84.375	7.4931E+00	-1.1626E+00	
90.000	1.2531E+01	-2.9539E-01		90.000	7.8354E+00	-1.1006E+00	
95.625	1.2548E+01	-2.9341E-01		95.625	7.6036E+00	-1.1436E+00	
101.250	1.2693E+01	-2.7078E-01		101.250	8.1452E+00	-1.0596E+00	
106.875	1.3418E+01	-1.4714E-01		106.875	1.0005E+01	-7.4786E-01	
112.500	1.3744E+01	-9.1567E-02		112.500	1.0621E+01	-6.5235E-01	
118.125	1.3589E+01	-1.2259E-01		118.125	1.0762E+01	-6.4352E-01	
123.750	1.3797E+01	-8.6983E-02		123.750	1.1001E+01	-6.1879E-01	
129.375	1.3875E+01	-7.4953E-02		129.375	1.1133E+01	-6.1632E-01	
135.000	1.3845E+01	-8.4215E-02		135.000	1.1240E+01	-6.2133E-01	
140.625	1.3703E+01	-1.1934E-01		140.625	1.1295E+01	-6.4035E-01	
146.250	1.3707E+01	-1.2491E-01		146.250	1.1309E+01	-6.7260E-01	
151.875	1.3715E+01	-1.3074E-01		151.875	1.1303E+01	-7.1509E-01	
157.500	1.3627E+01	-1.6213E-01		157.500	1.1304E+01	-7.6239E-01	
163.125	1.3397E+01	-2.3739E-01		163.125	1.1283E+01	-8.2276E-01	
168.750	1.3277E+01	-2.9133E-01		168.750	1.1250E+01	-8.9602E-01	
174.375	1.3284E+01	-3.1301E-01		174.375	1.1202E+01	-9.8442E-01	
180.000	1.3199E+01	-3.6941E-01		180.000	1.1169E+01	-1.0805E+00	
185.625	1.2997E+01	-4.8000E-01		185.625	1.1161E+01	-1.1807E+00	
191.250	1.2807E+01	-6.0370E-01		191.250	1.1167E+01	-1.2878E+00	
196.875	1.2795E+01	-6.6708E-01		196.875	1.1194E+01	-1.3985E+00	
202.500	1.2801E+01	-7.2849E-01		202.500	1.1207E+01	-1.5282E+00	
208.125	1.2652E+01	-8.8210E-01		208.125	1.1240E+01	-1.6595E+00	
213.750	1.2577E+01	-1.0130E+00		213.750	1.1273E+01	-1.8007E+00	
219.375	1.2611E+01	-1.0867E+00		219.375	1.1327E+01	-1.9360E+00	
225.000	1.2766E+01	-1.0743E+00		225.000	1.1399E+01	-2.0613E+00	
230.625	1.2786E+01	-1.1520E+00		230.625	1.1493E+01	-2.1658E+00	
236.250	1.2714E+01	-1.3043E+00		236.250	1.1601E+01	-2.2470E+00	
241.875	1.2861E+01	-1.2639E+00		241.875	1.1710E+01	-2.3073E+00	
247.500	1.3066E+01	-1.1428E+00		247.500	1.1818E+01	-2.3437E+00	
253.125	1.3103E+01	-1.1609E+00		253.125	1.1938E+01	-2.3370E+00	
258.750	1.3056E+01	-1.2524E+00		258.750	1.2037E+01	-2.3162E+00	
264.375	1.3112E+01	-1.2197E+00		264.375	1.2110E+01	-2.2892E+00	
270.000	1.3182E+01	-1.1534E+00		270.000	1.2166E+01	-2.2456E+00	
275.625	1.3266E+01	-1.0552E+00		275.625	1.2192E+01	-2.2013E+00	
281.250	1.3135E+01	-1.1688E+00		281.250	1.2174E+01	-2.1741E+00	
286.875	1.3042E+01	-1.2234E+00		286.875	1.2077E+01	-2.1962E+00	
292.500	1.3044E+01	-1.1645E+00		292.500	1.1970E+01	-2.1975E+00	
298.125	1.3108E+01	-1.0395E+00		298.125	1.1968E+01	-2.0734E+00	
303.750	1.3144E+01	-9.4055E-01		303.750	1.2068E+01	-1.8516E+00	
309.375	1.3072E+01	-9.2730E-01		309.375	1.2148E+01	-1.6528E+00	
315.000	1.3051E+01	-8.6913E-01		315.000	1.2080E+01	-1.5703E+00	
320.625	1.3073E+01	-7.8131E-01		320.625	1.1918E+01	-1.5454E+00	
326.250	1.2931E+01	-7.9928E-01		326.250	1.1719E+01	-1.5312E+00	
331.875	1.2694E+01	-8.5870E-01		331.875	1.1517E+01	-1.5073E+00	
337.500	1.2618E+01	-8.2054E-01		337.500	1.1334E+01	-1.4646E+00	
343.125	1.2599E+01	-7.5645E-01		343.125	1.1145E+01	-1.4214E+00	
348.750	1.2441E+01	-7.5649E-01		348.750	1.0954E+01	-1.3770E+00	
354.375	1.2209E+01	-7.8069E-01		354.375	1.0778E+01	-1.3271E+00	
360.000	1.2136E+01	-7.4211E-01		360.000	1.0683E+01	-1.2510E+00	

Table 11 (Continued). TABULATED PRESSURE DATA

P610	BLADE #2	UPPER SURFACE	P611	BLADE #2	UPPER SURFACE
x/C = 0.4000		r/R = 0.8650	x/C = 0.5500		r/R = 0.8650
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.2364E+01	-6.6194E-01	0.000	1.3075E+01	-4.1318E-01
5.625	1.2330E+01	-6.2074E-01	5.625	1.3076E+01	-3.8014E-01
11.250	1.2246E+01	-5.9890E-01	11.250	1.3037E+01	-3.6298E-01
16.875	1.2156E+01	-5.8093E-01	16.875	1.2997E+01	-3.4816E-01
22.500	1.2028E+01	-5.7510E-01	22.500	1.2942E+01	-3.3906E-01
28.125	1.1887E+01	-5.7341E-01	28.125	1.2869E+01	-3.3563E-01
33.750	1.1704E+01	-5.8227E-01	33.750	1.2786E+01	-3.3512E-01
39.375	1.1557E+01	-5.8346E-01	39.375	1.2714E+01	-3.3333E-01
45.000	1.1398E+01	-5.8868E-01	45.000	1.2638E+01	-3.3316E-01
50.625	1.1285E+01	-5.8626E-01	50.625	1.2586E+01	-3.2948E-01
56.250	1.1160E+01	-5.8856E-01	56.250	1.2559E+01	-3.2256E-01
61.875	1.1200E+01	-5.6283E-01	61.875	1.2584E+01	-3.0782E-01
67.500	1.1266E+01	-5.3668E-01	67.500	1.2601E+01	-2.9688E-01
73.125	1.1280E+01	-5.2334E-01	73.125	1.2575E+01	-2.9549E-01
78.750	1.1212E+01	-5.2763E-01	78.750	1.2588E+01	-2.8901E-01
84.375	1.1364E+01	-4.9700E-01	84.375	1.2637E+01	-2.7807E-01
90.000	1.1294E+01	-5.0747E-01	90.000	1.2587E+01	-2.8578E-01
95.625	1.1452E+01	-4.8189E-01	95.625	1.2678E+01	-2.7103E-01
101.250	1.1692E+01	-4.4441E-01	101.250	1.2717E+01	-2.6659E-01
106.875	1.1587E+01	-4.6945E-01	106.875	1.2700E+01	-2.7343E-01
112.500	1.1750E+01	-4.4977E-01	112.500	1.2731E+01	-2.7346E-01
118.125	1.1776E+01	-4.5676E-01	118.125	1.2729E+01	-2.8107E-01
123.750	1.1878E+01	-4.5204E-01	123.750	1.2760E+01	-2.8414E-01
129.375	1.1934E+01	-4.5823E-01	129.375	1.2780E+01	-2.9111E-01
135.000	1.2021E+01	-4.6036E-01	135.000	1.2795E+01	-3.0079E-01
140.625	1.2050E+01	-4.7687E-01	140.625	1.2783E+01	-3.1832E-01
146.250	1.2117E+01	-4.8809E-01	146.250	1.2788E+01	-3.3474E-01
151.875	1.2144E+01	-5.1122E-01	151.875	1.2795E+01	-3.5345E-01
157.500	1.2192E+01	-5.3279E-01	157.500	1.2802E+01	-3.7526E-01
163.125	1.2196E+01	-5.6988E-01	163.125	1.2792E+01	-4.0490E-01
168.750	1.2245E+01	-5.9913E-01	168.750	1.2807E+01	-4.3169E-01
174.375	1.2266E+01	-6.4113E-01	174.375	1.2813E+01	-4.6481E-01
180.000	1.2311E+01	-6.8059E-01	180.000	1.2837E+01	-4.9645E-01
185.625	1.2337E+01	-7.3191E-01	185.625	1.2860E+01	-5.3205E-01
191.250	1.2394E+01	-7.7606E-01	191.250	1.2894E+01	-5.6737E-01
196.875	1.2430E+01	-8.3363E-01	196.875	1.2920E+01	-6.0963E-01
202.500	1.2477E+01	-8.9098E-01	202.500	1.2944E+01	-6.5699E-01
208.125	1.2521E+01	-9.5405E-01	208.125	1.2981E+01	-7.0053E-01
213.750	1.2576E+01	-1.0137E+00	213.750	1.3022E+01	-7.4441E-01
219.375	1.2620E+01	-1.0805E+00	219.375	1.3068E+01	-7.8490E-01
225.000	1.2691E+01	-1.1283E+00	225.000	1.3121E+01	-8.1824E-01
230.625	1.2752E+01	-1.1787E+00	230.625	1.3177E+01	-8.4478E-01
236.250	1.2820E+01	-1.2145E+00	236.250	1.3228E+01	-8.6879E-01
241.875	1.2875E+01	-1.2511E+00	241.875	1.3271E+01	-8.9141E-01
247.500	1.2937E+01	-1.2673E+00	247.500	1.3312E+01	-9.0624E-01
253.125	1.2994E+01	-1.2715E+00	253.125	1.3358E+01	-9.0454E-01
258.750	1.3044E+01	-1.2641E+00	258.750	1.3383E+01	-9.0976E-01
264.375	1.3076E+01	-1.2573E+00	264.375	1.3402E+01	-9.0933E-01
270.000	1.3103E+01	-1.2378E+00	270.000	1.3420E+01	-8.9659E-01
275.625	1.3100E+01	-1.2318E+00	275.625	1.3422E+01	-8.8861E-01
281.250	1.3084E+01	-1.2222E+00	281.250	1.3395E+01	-8.9751E-01
286.875	1.3062E+01	-1.2024E+00	286.875	1.3374E+01	-8.8786E-01
292.500	1.3032E+01	-1.1759E+00	292.500	1.3346E+01	-8.7368E-01
298.125	1.2999E+01	-1.1385E+00	298.125	1.3310E+01	-8.5607E-01
303.750	1.3022E+01	-1.0435E+00	303.750	1.3311E+01	-7.9929E-01
309.375	1.3134E+01	-8.7883E-01	309.375	1.3399E+01	-6.7105E-01
315.000	1.3156E+01	-7.9313E-01	315.000	1.3506E+01	-5.4038E-01
320.625	1.3044E+01	-8.0065E-01	320.625	1.3459E+01	-5.2610E-01
326.250	1.2913E+01	-8.1042E-01	326.250	1.3377E+01	-5.2976E-01
331.875	1.2805E+01	-7.9808E-01	331.875	1.3301E+01	-5.2481E-01
337.500	1.2705E+01	-7.7697E-01	337.500	1.3248E+01	-5.0465E-01
343.125	1.2615E+01	-7.4926E-01	343.125	1.3190E+01	-4.8663E-01
348.750	1.2519E+01	-7.2422E-01	348.750	1.3145E+01	-4.6292E-01
354.375	1.2421E+01	-6.9991E-01	354.375	1.3087E+01	-4.4551E-01
360.000	1.2364E+01	-6.6200E-01	360.000	1.3075E+01	-4.1322E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P613	BLADE #2	UPPER SURFACE r/R = 0.8650	P614	BLADE #2	UPPER SURFACE r/R = 0.8650
x/C = 0.8000		CP	x/C = 1.0000	PSIA	CP
AZIMUTH	PSIA		AZIMUTH		
0.000	1.3594E+01	-2.3133E-01	0.000	1.3885E+01	-1.2910E-01
5.625	1.3608E+01	-2.0833E-01	5.625	1.3910E+01	-1.1098E-01
11.250	1.3607E+01	-1.9292E-01	11.250	1.3940E+01	-9.3714E-02
16.875	1.3603E+01	-1.8024E-01	16.875	1.3972E+01	-7.8119E-02
22.500	1.3600E+01	-1.6905E-01	22.500	1.4003E+01	-6.4995E-02
28.125	1.3595E+01	-1.5964E-01	28.125	1.4038E+01	-5.2358E-02
33.750	1.3592E+01	-1.5107E-01	33.750	1.4070E+01	-4.1960E-02
39.375	1.3592E+01	-1.4319E-01	39.375	1.4114E+01	-3.0232E-02
45.000	1.3598E+01	-1.3528E-01	45.000	1.4165E+01	-1.8467E-02
50.625	1.3605E+01	-1.2824E-01	50.625	1.4209E+01	-8.8411E-03
56.250	1.3624E+01	-1.1991E-01	56.250	1.4243E+01	-2.1092E-03
61.875	1.3656E+01	-1.1021E-01	61.875	1.4267E+01	2.2914E-03
67.500	1.3663E+01	-1.0613E-01	67.500	1.4268E+01	2.5567E-03
73.125	1.3625E+01	-1.1069E-01	73.125	1.4225E+01	-5.1615E-03
78.750	1.3665E+01	-1.0216E-01	78.750	1.4268E+01	2.3420E-03
84.375	1.3683E+01	-9.8232E-02	84.375	1.4292E+01	6.4554E-03
90.000	1.3669E+01	-1.0034E-01	90.000	1.4302E+01	8.2428E-03
95.625	1.3729E+01	-9.0312E-02	95.625	1.4346E+01	1.5796E-02
101.250	1.3715E+01	-9.3603E-02	101.250	1.4359E+01	1.8228E-02
106.875	1.3679E+01	-1.0120E-01	106.875	1.4310E+01	9.8748E-03
112.500	1.3658E+01	-1.0702E-01	112.500	1.4332E+01	1.4026E-02
118.125	1.3651E+01	-1.1125E-01	118.125	1.4379E+01	2.3000E-02
123.750	1.3640E+01	-1.1690E-01	123.750	1.4330E+01	1.4424E-02
129.375	1.3620E+01	-1.2522E-01	129.375	1.4320E+01	1.3066E-02
135.000	1.3591E+01	-1.3671E-01	135.000	1.4285E+01	6.2839E-03
140.625	1.3567E+01	-1.4865E-01	140.625	1.4249E+01	-1.1037E-03
146.250	1.3541E+01	-1.6281E-01	146.250	1.4204E+01	-1.1402E-02
151.875	1.3511E+01	-1.7993E-01	151.875	1.4171E+01	-2.0197E-02
157.500	1.3490E+01	-1.9751E-01	157.500	1.4139E+01	-2.9731E-02
163.125	1.3470E+01	-2.1711E-01	163.125	1.4116E+01	-3.8159E-02
168.750	1.3462E+01	-2.3620E-01	168.750	1.4076E+01	-5.2976E-02
174.375	1.3451E+01	-2.5914E-01	174.375	1.4061E+01	-6.2227E-02
180.000	1.3443E+01	-2.8405E-01	180.000	1.4030E+01	-7.8621E-02
185.625	1.3447E+01	-3.0818E-01	185.625	1.4004E+01	-9.5433E-02
191.250	1.3452E+01	-3.3478E-01	191.250	1.3984E+01	-1.1280E-01
196.875	1.3458E+01	-3.6372E-01	196.875	1.3960E+01	-1.3417E-01
202.500	1.3458E+01	-3.9947E-01	202.500	1.3926E+01	-1.6440E-01
208.125	1.3474E+01	-4.2948E-01	208.125	1.3903E+01	-1.9339E-01
213.750	1.3490E+01	-4.6159E-01	213.750	1.3877E+01	-2.2786E-01
219.375	1.3508E+01	-4.9369E-01	219.375	1.3857E+01	-2.6241E-01
225.000	1.3531E+01	-5.2235E-01	225.000	1.3837E+01	-3.0141E-01
230.625	1.3548E+01	-5.5365E-01	230.625	1.3815E+01	-3.4471E-01
236.250	1.3559E+01	-5.8848E-01	236.250	1.3791E+01	-3.9211E-01
241.875	1.3566E+01	-6.2380E-01	241.875	1.3762E+01	-4.4612E-01
247.500	1.3570E+01	-6.5836E-01	247.500	1.3731E+01	-5.0336E-01
253.125	1.3574E+01	-6.8592E-01	253.125	1.3710E+01	-5.4884E-01
258.750	1.3572E+01	-7.1264E-01	258.750	1.3685E+01	-5.9510E-01
264.375	1.3559E+01	-7.4230E-01	264.375	1.3665E+01	-6.2909E-01
270.000	1.3550E+01	-7.5683E-01	270.000	1.3644E+01	-6.5557E-01
275.625	1.3534E+01	-7.6867E-01	275.625	1.3615E+01	-6.8189E-01
281.250	1.3508E+01	-7.7948E-01	281.250	1.3604E+01	-6.7961E-01
286.875	1.3496E+01	-7.6534E-01	286.875	1.3594E+01	-6.6569E-01
292.500	1.3476E+01	-7.4826E-01	292.500	1.3571E+01	-6.5704E-01
298.125	1.3482E+01	-7.0042E-01	298.125	1.3599E+01	-5.9412E-01
303.750	1.3507E+01	-6.3245E-01	303.750	1.3619E+01	-5.3799E-01
309.375	1.3531E+01	-5.6735E-01	309.375	1.3604E+01	-5.0987E-01
315.000	1.3563E+01	-4.9880E-01	315.000	1.3585E+01	-4.8330E-01
320.625	1.3598E+01	-4.3414E-01	320.625	1.3600E+01	-4.3243E-01
326.250	1.3632E+01	-3.7549E-01	326.250	1.3671E+01	-3.5216E-01
331.875	1.3630E+01	-3.4353E-01	331.875	1.3740E+01	-2.8315E-01
337.500	1.3609E+01	-3.2356E-01	337.500	1.3786E+01	-2.3451E-01
343.125	1.3600E+01	-2.9910E-01	343.125	1.3805E+01	-2.0516E-01
348.750	1.3590E+01	-2.7702E-01	348.750	1.3827E+01	-1.7830E-01
354.375	1.3580E+01	-2.5754E-01	354.375	1.3848E+01	-1.5507E-01
360.000	1.3594E+01	-2.3135E-01	360.000	1.3885E+01	-1.2912E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P615	BLADE #2	UPPER SURFACE	P616	BLADE #2	UPPER SURFACE
x/C = 0.0520		r/R = 0.9025	x/C = 0.0520		r/R = 0.9400
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	9.0143E+00	-1.6860E+00	0.000	8.9370E+00	-1.5771E+00
5.625	8.8187E+00	-1.6159E+00	5.625	8.6160E+00	-1.5499E+00
11.250	9.0675E+00	-1.4301E+00	11.250	8.3676E+00	-1.5050E+00
16.875	9.1875E+00	-1.3009E+00	16.875	8.6247E+00	-1.3438E+00
22.500	9.1970E+00	-1.2146E+00	22.500	8.4858E+00	-1.2910E+00
28.125	9.1387E+00	-1.1546E+00	28.125	8.2642E+00	-1.2626E+00
33.750	9.0523E+00	-1.1089E+00	33.750	7.9699E+00	-1.2534E+00
39.375	8.9749E+00	-1.0682E+00	39.375	7.9849E+00	-1.1889E+00
45.000	9.0807E+00	-9.9887E-01	45.000	8.0437E+00	-1.1255E+00
50.625	9.2652E+00	-9.2403E-01	50.625	8.1885E+00	-1.0558E+00
56.250	9.3923E+00	-8.6849E-01	56.250	8.3128E+00	-9.9855E-01
61.875	9.7323E+00	-7.8334E-01	61.875	8.5331E+00	-9.3331E-01
67.500	9.7884E+00	-7.5439E-01	67.500	8.4139E+00	-9.2976E-01
73.125	9.5890E+00	-7.7276E-01	73.125	8.3174E+00	-9.2729E-01
78.750	9.9373E+00	-7.0511E-01	78.750	8.6774E+00	-8.5926E-01
84.375	1.0385E+01	-6.2659E-01	84.375	9.0833E+00	-7.9023E-01
90.000	1.0690E+01	-5.7563E-01	90.000	8.9953E+00	-8.0149E-01
95.625	1.0636E+01	-5.8601E-01	95.625	1.0363E+01	-5.9465E-01
101.250	1.2060E+01	-3.5839E-01	101.250	1.1677E+01	-3.9705E-01
106.875	1.3072E+01	-1.9587E-01	106.875	1.1861E+01	-3.7381E-01
112.500	1.3073E+01	-1.9958E-01	112.500	1.2261E+01	-3.1730E-01
118.125	1.3340E+01	-1.5836E-01	118.125	1.2378E+01	-3.0603E-01
123.750	1.3323E+01	-1.6641E-01	123.750	1.2520E+01	-2.9148E-01
129.375	1.3378E+01	-1.6231E-01	129.375	1.2514E+01	-3.0286E-01
135.000	1.3331E+01	-1.7831E-01	135.000	1.2551E+01	-3.0862E-01
140.625	1.3287E+01	-1.9570E-01	140.625	1.2518E+01	-3.2921E-01
146.250	1.3156E+01	-2.3399E-01	146.250	1.2463E+01	-3.5715E-01
151.875	1.2955E+01	-2.9318E-01	151.875	1.2275E+01	-4.1707E-01
157.500	1.2676E+01	-3.7892E-01	157.500	1.2075E+01	-4.8765E-01
163.125	1.2458E+01	-4.6120E-01	163.125	1.1846E+01	-5.7492E-01
168.750	1.2128E+01	-5.8615E-01	168.750	1.1623E+01	-6.7269E-01
174.375	1.1814E+01	-7.2546E-01	174.375	1.1356E+01	-7.9654E-01
180.000	1.1479E+01	-8.9284E-01	180.000	1.1147E+01	-9.2145E-01
185.625	1.1241E+01	-1.0526E+00	185.625	1.0950E+01	-1.0604E+00
191.250	1.1036E+01	-1.2241E+00	191.250	1.0796E+01	-1.2042E+00
196.875	1.0836E+01	-1.4183E+00	196.875	1.0640E+01	-1.3675E+00
202.500	1.0609E+01	-1.6519E+00	202.500	1.0502E+01	-1.5445E+00
208.125	1.0418E+01	-1.8995E+00	208.125	1.0310E+01	-1.7663E+00
213.750	1.0385E+01	-2.0919E+00	213.750	1.0343E+01	-1.9040E+00
219.375	1.0365E+01	-2.2912E+00	219.375	1.0295E+01	-2.0909E+00
225.000	1.0335E+01	-2.5078E+00	225.000	1.0209E+01	-2.3101E+00
230.625	1.0360E+01	-2.6939E+00	230.625	1.0254E+01	-2.4586E+00
236.250	1.0409E+01	-2.8583E+00	236.250	1.0249E+01	-2.6339E+00
241.875	1.0525E+01	-2.9556E+00	241.875	1.0195E+01	-2.8352E+00
247.500	1.0619E+01	-3.0435E+00	247.500	1.0132E+01	-3.0312E+00
253.125	1.0766E+01	-3.0533E+00	253.125	1.0153E+01	-3.1442E+00
258.750	1.0897E+01	-3.0361E+00	258.750	1.0372E+01	-3.0687E+00
264.375	1.1009E+01	-2.9938E+00	264.375	1.0649E+01	-2.9035E+00
270.000	1.0963E+01	-3.0568E+00	270.000	1.0981E+01	-2.6527E+00
275.625	1.0698E+01	-3.2809E+00	275.625	1.1354E+01	-2.3357E+00
281.250	1.0724E+01	-3.1924E+00	281.250	1.1627E+01	-2.0769E+00
286.875	1.0975E+01	-2.8707E+00	286.875	1.1787E+01	-1.8913E+00
292.500	1.1141E+01	-2.6070E+00	292.500	1.1850E+01	-1.7679E+00
298.125	1.1513E+01	-2.1724E+00	298.125	1.1929E+01	-1.6240E+00
303.750	1.1497E+01	-2.0498E+00	303.750	1.1956E+01	-1.5113E+00
309.375	1.1292E+01	-2.0495E+00	309.375	1.1709E+01	-1.5645E+00
315.000	1.1066E+01	-2.0405E+00	315.000	1.1209E+01	-1.7389E+00
320.625	1.0722E+01	-2.0816E+00	320.625	1.0553E+01	-1.9547E+00
326.250	1.0422E+01	-2.0725E+00	326.250	9.9798E+00	-2.0810E+00
331.875	1.0142E+01	-2.0365E+00	331.875	9.4930E+00	-2.1325E+00
337.500	9.8424E+00	-1.9998E+00	337.500	9.1693E+00	-2.0933E+00
343.125	9.6727E+00	-1.9013E+00	343.125	9.0043E+00	-1.9868E+00
348.750	9.4284E+00	-1.8357E+00	348.750	8.7835E+00	-1.9051E+00
354.375	9.2631E+00	-1.7439E+00	354.375	8.6680E+00	-1.7932E+00
360.000	9.0143E+00	-1.6861E+00	360.000	8.9370E+00	-1.5772E+00

Table 11 (Continued). TABULATED PRESSURE DATA

P618 x/C = 0.0370	BLADE #2	UPPER SURFACE r/R = 0.9600	CP	P619 x/C = 0.0700	BLADE #2	UPPER SURFACE r/R = 0.9600	CP
AZIMUTH	PSIA			AZIMUTH	PSIA		
0.000	5.1588E+00	-2.5864E+00	0.000	9.6610E+00	-1.3061E+00		
5.625	5.6001E+00	-2.2845E+00	5.625	9.9968E+00	-1.1238E+00		
11.250	6.7002E+00	-1.8572E+00	11.250	9.8652E+00	-1.0791E+00		
16.875	7.4147E+00	-1.5721E+00	16.875	9.3884E+00	-1.1184E+00		
22.500	7.8837E+00	-1.3745E+00	22.500	9.2995E+00	-1.0690E+00		
28.125	8.1074E+00	-1.2504E+00	28.125	9.0480E+00	-1.0590E+00		
33.750	8.3662E+00	-1.1344E+00	33.750	8.5273E+00	-1.1034E+00		
39.375	8.4659E+00	-1.0613E+00	39.375	8.0024E+00	-1.1463E+00		
45.000	8.7524E+00	-9.6468E-01	45.000	7.9798E+00	-1.1001E+00		
50.625	8.8968E+00	-9.0286E-01	50.625	7.9865E+00	-1.0563E+00		
56.250	9.2928E+00	-8.0776E-01	56.250	8.1664E+00	-9.9115E-01		
61.875	9.4278E+00	-7.6307E-01	61.875	8.3163E+00	-9.3880E-01		
67.500	9.1784E+00	-7.8343E-01	67.500	8.2724E+00	-9.2328E-01		
73.125	8.9935E+00	-7.9689E-01	73.125	8.0190E+00	-9.4451E-01		
78.750	9.9523E+00	-6.4296E-01	78.750	8.6420E+00	-8.3879E-01		
84.375	9.9757E+00	-6.3433E-01	84.375	8.7516E+00	-8.1582E-01		
90.000	1.0524E+01	-5.5152E-01	90.000	9.0920E+00	-7.6329E-01		
95.625	1.3000E+01	-1.8589E-01	95.625	1.0664E+01	-5.3230E-01		
101.250	1.3445E+01	-1.2093E-01	101.250	1.1210E+01	-4.5498E-01		
106.875	1.3888E+01	-5.5439E-02	106.875	1.1683E+01	-3.8947E-01		
112.500	1.4155E+01	-1.5347E-02	112.500	1.1970E+01	-3.5258E-01		
118.125	1.4342E+01	1.3824E-02	118.125	1.2183E+01	-3.2752E-01		
123.750	1.4339E+01	1.3779E-02	123.750	1.2248E+01	-3.2654E-01		
129.375	1.4366E+01	1.8816E-02	129.375	1.2307E+01	-3.2819E-01		
135.000	1.4250E+01	-6.2907E-04	135.000	1.2310E+01	-3.4080E-01		
140.625	1.4219E+01	-6.4402E-03	140.625	1.2370E+01	-3.4543E-01		
146.250	1.4010E+01	-4.6964E-02	146.250	1.2326E+01	-3.7149E-01		
151.875	1.3752E+01	-1.0204E-01	151.875	1.2212E+01	-4.1537E-01		
157.500	1.3350E+01	-1.9505E-01	157.500	1.2065E+01	-4.7237E-01		
163.125	1.3033E+01	-2.8070E-01	163.125	1.1938E+01	-5.3232E-01		
168.750	1.2573E+01	-4.1321E-01	168.750	1.1770E+01	-6.1074E-01		
174.375	1.2186E+01	-5.4601E-01	174.375	1.1614E+01	-6.9681E-01		
180.000	1.1714E+01	-7.2223E-01	180.000	1.1477E+01	-7.8961E-01		
185.625	1.1297E+01	-9.0854E-01	185.625	1.1357E+01	-8.9006E-01		
191.250	1.0844E+01	-1.1346E+00	191.250	1.1236E+01	-1.0039E+00		
196.875	1.0488E+01	-1.3590E+00	196.875	1.1174E+01	-1.1115E+00		
202.500	1.0031E+01	-1.6544E+00	202.500	1.1039E+01	-1.2595E+00		
208.125	9.6834E+00	-1.9440E+00	208.125	1.0924E+01	-1.4162E+00		
213.750	9.0167E+00	-2.4161E+00	213.750	1.0995E+01	-1.5036E+00		
219.375	8.5630E+00	-2.8418E+00	219.375	1.0984E+01	-1.6331E+00		
225.000	8.7355E+00	-2.9732E+00	225.000	1.0902E+01	-1.8059E+00		
230.625	8.6188E+00	-3.2609E+00	230.625	1.0966E+01	-1.9028E+00		
236.250	8.3793E+00	-3.6299E+00	236.250	1.0973E+01	-2.0275E+00		
241.875	8.4702E+00	-3.7886E+00	241.875	1.1028E+01	-2.1133E+00		
247.500	8.5787E+00	-3.9077E+00	247.500	1.1031E+01	-2.2190E+00		
253.125	8.6460E+00	-4.0197E+00	253.125	1.1030E+01	-2.3110E+00		
258.750	8.7812E+00	-4.0403E+00	258.750	1.1042E+01	-2.3710E+00		
264.375	8.9636E+00	-3.9768E+00	264.375	1.1078E+01	-2.3872E+00		
270.000	9.1885E+00	-3.8309E+00	270.000	1.1125E+01	-2.3660E+00		
275.625	9.7332E+00	-3.3983E+00	275.625	1.1226E+01	-2.2766E+00		
281.250	1.0826E+01	-2.5310E+00	281.250	1.1499E+01	-2.0341E+00		
286.875	1.1616E+01	-1.8912E+00	286.875	1.1913E+01	-1.6779E+00		
292.500	1.1958E+01	-1.5808E+00	292.500	1.2153E+01	-1.4467E+00		
298.125	1.2190E+01	-1.3519E+00	298.125	1.2383E+01	-1.2256E+00		
303.750	1.1973E+01	-1.4098E+00	303.750	1.2479E+01	-1.0970E+00		
309.375	1.1212E+01	-1.7607E+00	309.375	1.2311E+01	-1.1247E+00		
315.000	1.0349E+01	-2.1044E+00	315.000	1.1903E+01	-1.2668E+00		
320.625	9.1196E+00	-2.5642E+00	320.625	1.1326E+01	-1.4625E+00		
326.250	7.9709E+00	-2.8990E+00	326.250	1.0762E+01	-1.6113E+00		
331.875	7.3021E+00	-2.9572E+00	331.875	1.0247E+01	-1.7046E+00		
337.500	7.0959E+00	-2.8046E+00	337.500	9.8919E+00	-1.7091E+00		
343.125	6.5432E+00	-2.7828E+00	343.125	9.7580E+00	-1.6226E+00		
348.750	5.9368E+00	-2.7673E+00	348.750	9.4944E+00	-1.5836E+00		
354.375	5.4399E+00	-2.7082E+00	354.375	9.3675E+00	-1.5014E+00		
360.000	5.1588E+00	-2.5866E+00	360.000	9.6610E+00	-1.3062E+00		

Table 11 (Continued). TABULATED PRESSURE DATA

P620	BLADE #2	UPPER SURFACE	P621	BLADE #2	UPPER SURFACE
x/C = 0.1500		r/R = 0.9600	x/C = 0.2500		r/R = 0.9600
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.1273E+01	-8.4774E-01	0.000	1.2196E+01	-5.8513E-01
5.625	1.1299E+01	-7.8005E-01	5.625	1.2194E+01	-5.4385E-01
11.250	1.1262E+01	-7.3560E-01	11.250	1.2151E+01	-5.1698E-01
16.875	1.1170E+01	-7.0885E-01	16.875	1.2095E+01	-4.9631E-01
22.500	1.1204E+01	-6.5816E-01	22.500	1.2011E+01	-4.8409E-01
28.125	1.1036E+01	-6.5462E-01	28.125	1.1897E+01	-4.7946E-01
33.750	1.1028E+01	-6.2155E-01	33.750	1.1769E+01	-4.7876E-01
39.375	1.0782E+01	-6.3664E-01	39.375	1.1682E+01	-4.7166E-01
45.000	8.9277E+00	-9.3396E-01	45.000	1.1684E+01	-4.5072E-01
50.625	7.8912E+00	-1.0723E+00	50.625	1.1833E+01	-4.0794E-01
56.250	7.6819E+00	-1.0700E+00	56.250	1.1933E+01	-3.7794E-01
61.875	7.2996E+00	-1.0996E+00	61.875	1.1819E+01	-3.8495E-01
67.500	7.4792E+00	-1.0457E+00	67.500	1.2011E+01	-3.4621E-01
73.125	7.3323E+00	-1.0485E+00	73.125	1.1960E+01	-3.4747E-01
78.750	7.5245E+00	-1.0058E+00	78.750	1.1932E+01	-3.4701E-01
84.375	7.4205E+00	-1.0132E+00	84.375	1.2028E+01	-3.3010E-01
90.000	8.1439E+00	-9.0348E-01	90.000	1.2117E+01	-3.1603E-01
95.625	1.0388E+01	-5.7317E-01	95.625	1.2064E+01	-3.2474E-01
101.250	1.1162E+01	-4.6214E-01	101.250	1.1906E+01	-3.5098E-01
106.875	1.1359E+01	-4.3854E-01	106.875	1.2087E+01	-3.2835E-01
112.500	1.1619E+01	-4.0670E-01	112.500	1.2151E+01	-3.2453E-01
118.125	1.1787E+01	-3.9006E-01	118.125	1.2257E+01	-3.1576E-01
123.750	1.1920E+01	-3.7996E-01	123.750	1.2306E+01	-3.1715E-01
129.375	1.2035E+01	-3.7392E-01	129.375	1.2456E+01	-3.0300E-01
135.000	1.2123E+01	-3.7376E-01	135.000	1.2597E+01	-2.9064E-01
140.625	1.2186E+01	-3.7910E-01	140.625	1.2689E+01	-2.8686E-01
146.250	1.2209E+01	-3.9407E-01	146.250	1.2694E+01	-3.0051E-01
151.875	1.2186E+01	-4.2068E-01	151.875	1.2685E+01	-3.1927E-01
157.500	1.2137E+01	-4.5676E-01	157.500	1.2656E+01	-3.4492E-01
163.125	1.2111E+01	-4.9253E-01	163.125	1.2646E+01	-3.6962E-01
168.750	1.2050E+01	-5.4201E-01	168.750	1.2593E+01	-4.0836E-01
174.375	1.1997E+01	-5.9577E-01	174.375	1.2580E+01	-4.4183E-01
180.000	1.1962E+01	-6.5183E-01	180.000	1.2548E+01	-4.8524E-01
185.625	1.1911E+01	-7.1969E-01	185.625	1.2542E+01	-5.2593E-01
191.250	1.1889E+01	-7.8677E-01	191.250	1.2539E+01	-5.7043E-01
196.875	1.1842E+01	-8.7041E-01	196.875	1.2495E+01	-6.3483E-01
202.500	1.1856E+01	-9.3944E-01	202.500	1.2453E+01	-7.0539E-01
208.125	1.1817E+01	-1.0367E+00	208.125	1.2452E+01	-7.6656E-01
213.750	1.1742E+01	-1.1591E+00	213.750	1.2447E+01	-8.3357E-01
219.375	1.1767E+01	-1.2419E+00	219.375	1.2463E+01	-8.9453E-01
225.000	1.1775E+01	-1.3358E+00	225.000	1.2483E+01	-9.5430E-01
230.625	1.1819E+01	-1.4091E+00	230.625	1.2521E+01	-1.0030E+00
236.250	1.1861E+01	-1.4788E+00	236.250	1.2555E+01	-1.0500E+00
241.875	1.1892E+01	-1.5473E+00	241.875	1.2590E+01	-1.0903E+00
247.500	1.1928E+01	-1.6016E+00	247.500	1.2628E+01	-1.1198E+00
253.125	1.1953E+01	-1.6496E+00	253.125	1.2657E+01	-1.1448E+00
258.750	1.1976E+01	-1.6822E+00	258.750	1.2671E+01	-1.1690E+00
264.375	1.1935E+01	-1.7431E+00	264.375	1.2667E+01	-1.1926E+00
270.000	1.1869E+01	-1.8034E+00	270.000	1.2608E+01	-1.2452E+00
275.625	1.1697E+01	-1.9225E+00	275.625	1.2472E+01	-1.3393E+00
281.250	1.1567E+01	-1.9835E+00	281.250	1.2193E+01	-1.5215E+00
286.875	1.1720E+01	-1.8168E+00	286.875	1.2046E+01	-1.5827E+00
292.500	1.1936E+01	-1.5963E+00	292.500	1.2187E+01	-1.4231E+00
298.125	1.2187E+01	-1.3541E+00	298.125	1.2284E+01	-1.2906E+00
303.750	1.2399E+01	-1.1467E+00	303.750	1.2555E+01	-1.0500E+00
309.375	1.2392E+01	-1.0775E+00	309.375	1.2767E+01	-8.6040E-01
315.000	1.2256E+01	-1.0766E+00	315.000	1.2735E+01	-8.1858E-01
320.625	1.2076E+01	-1.0879E+00	320.625	1.2742E+01	-7.5511E-01
326.250	1.1792E+01	-1.1358E+00	326.250	1.2646E+01	-7.4214E-01
331.875	1.1552E+01	-1.1493E+00	331.875	1.2481E+01	-7.5420E-01
337.500	1.1387E+01	-1.1233E+00	337.500	1.2387E+01	-7.3139E-01
343.125	1.1325E+01	-1.0570E+00	343.125	1.2550E+01	-6.9426E-01
348.750	1.1287E+01	-9.8734E-01	348.750	1.2267E+01	-6.6117E-01
354.375	1.1217E+01	-9.3326E-01	354.375	1.2204E+01	-6.2982E-01
360.000	1.1273E+01	-8.4781E-01	360.000	1.2196E+01	-5.8518E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P622	BLADE #2	UPPER SURFACE r/R = 0.9600	P623	BLADE #2	UPPER SURFACE r/R = 0.9600	
x/C = 0.4000	AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
	0.000	1.2722E+01	-4.3569E-01	0.000	1.3022E+01	-3.5041E-01
	5.625	1.2707E+01	-4.0853E-01	5.625	1.3012E+01	-3.2780E-01
	11.250	1.2664E+01	-3.9102E-01	11.250	1.2982E+01	-3.1276E-01
	16.875	1.2610E+01	-3.7786E-01	16.875	1.2939E+01	-3.0239E-01
	22.500	1.2540E+01	-3.6994E-01	22.500	1.2884E+01	-2.9551E-01
	28.125	1.2446E+01	-3.6777E-01	28.125	1.2806E+01	-2.9453E-01
	33.750	1.2337E+01	-3.6941E-01	33.750	1.2726E+01	-2.9448E-01
	39.375	1.2254E+01	-3.6673E-01	39.375	1.2663E+01	-2.9163E-01
	45.000	1.2179E+01	-3.6380E-01	45.000	1.2612E+01	-2.8796E-01
	50.625	1.2151E+01	-3.5444E-01	50.625	1.2573E+01	-2.8335E-01
	56.250	1.2149E+01	-3.4278E-01	56.250	1.2557E+01	-2.7636E-01
	61.875	1.2201E+01	-3.2460E-01	61.875	1.2543E+01	-2.7059E-01
	67.500	1.2141E+01	-3.2609E-01	67.500	1.2523E+01	-2.6717E-01
	73.125	1.2175E+01	-3.1491E-01	73.125	1.2536E+01	-2.6027E-01
	78.750	1.2202E+01	-3.0677E-01	78.750	1.2538E+01	-2.5644E-01
	84.375	1.2203E+01	-3.0411E-01	84.375	1.2542E+01	-2.5389E-01
	90.000	1.2204E+01	-3.0320E-01	90.000	1.2516E+01	-2.5697E-01
	95.625	1.2122E+01	-3.1606E-01	95.625	1.2502E+01	-2.5972E-01
	101.250	1.2209E+01	-3.0561E-01	101.250	1.2532E+01	-2.5736E-01
	106.875	1.2236E+01	-3.0575E-01	106.875	1.2523E+01	-2.6217E-01
	112.500	1.2274E+01	-3.0567E-01	112.500	1.2502E+01	-2.7044E-01
	118.125	1.2281E+01	-3.1196E-01	118.125	1.2487E+01	-2.7932E-01
	123.750	1.2342E+01	-3.1122E-01	123.750	1.2467E+01	-2.9090E-01
	129.375	1.2474E+01	-3.0007E-01	129.375	1.2623E+01	-2.7490E-01
	135.000	1.2612E+01	-2.8789E-01	135.000	1.2767E+01	-2.6069E-01
	140.625	1.2653E+01	-2.9353E-01	140.625	1.2790E+01	-2.6841E-01
	146.250	1.2667E+01	-3.0569E-01	146.250	1.2778E+01	-2.8432E-01
	151.875	1.2648E+01	-3.2668E-01	151.875	1.2780E+01	-2.9996E-01
	157.500	1.2676E+01	-3.4051E-01	157.500	1.2788E+01	-3.1625E-01
	163.125	1.2655E+01	-3.6750E-01	163.125	1.2785E+01	-3.3773E-01
	168.750	1.2662E+01	-3.9150E-01	168.750	1.2768E+01	-3.6529E-01
	174.375	1.2632E+01	-4.2817E-01	174.375	1.2666E+01	-4.1927E-01
	180.000	1.2526E+01	-4.9152E-01	180.000	1.2655E+01	-4.5473E-01
	185.625	1.2488E+01	-5.4263E-01	185.625	1.2689E+01	-4.8077E-01
	191.250	1.2534E+01	-5.7232E-01	191.250	1.2720E+01	-5.1026E-01
	196.875	1.2553E+01	-6.1386E-01	196.875	1.2754E+01	-5.4124E-01
	202.500	1.2572E+01	-6.5906E-01	202.500	1.2769E+01	-5.8158E-01
	208.125	1.2582E+01	-7.1115E-01	208.125	1.2795E+01	-6.2065E-01
	213.750	1.2609E+01	-7.5901E-01	213.750	1.2818E+01	-6.6275E-01
	219.375	1.2644E+01	-8.0396E-01	219.375	1.2851E+01	-7.0051E-01
	225.000	1.2697E+01	-8.3883E-01	225.000	1.2891E+01	-7.3419E-01
	230.625	1.2744E+01	-8.7407E-01	230.625	1.2939E+01	-7.6111E-01
	236.250	1.2796E+01	-9.0105E-01	236.250	1.2975E+01	-7.9016E-01
	241.875	1.2833E+01	-9.3061E-01	241.875	1.3017E+01	-8.1007E-01
	247.500	1.2881E+01	-9.4523E-01	247.500	1.3053E+01	-8.2703E-01
	253.125	1.2928E+01	-9.5074E-01	253.125	1.3097E+01	-8.2940E-01
	258.750	1.2960E+01	-9.5501E-01	258.750	1.3130E+01	-8.3017E-01
	264.375	1.2982E+01	-9.5641E-01	264.375	1.3145E+01	-8.3366E-01
	270.000	1.2992E+01	-9.5438E-01	270.000	1.3173E+01	-8.1786E-01
	275.625	1.2954E+01	-9.7700E-01	275.625	1.3179E+01	-8.0839E-01
	281.250	1.2882E+01	-1.0131E+00	281.250	1.3177E+01	-7.9479E-01
	286.875	1.2664E+01	-1.1396E+00	286.875	1.3116E+01	-8.1571E-01
	292.500	1.2506E+01	-1.2034E+00	292.500	1.2936E+01	-9.0796E-01
	298.125	1.2526E+01	-1.1321E+00	298.125	1.2825E+01	-9.3609E-01
	303.750	1.2595E+01	-1.0252E+00	303.750	1.2781E+01	-9.1020E-01
	309.375	1.2844E+01	-8.1624E-01	309.375	1.2923E+01	-7.7052E-01
	315.000	1.3041E+01	-6.5357E-01	315.000	1.3146E+01	-5.9686E-01
	320.625	1.3105E+01	-5.7401E-01	320.625	1.3234E+01	-5.0951E-01
	326.250	1.3060E+01	-5.5085E-01	326.250	1.3263E+01	-4.5739E-01
	331.875	1.2965E+01	-5.4854E-01	331.875	1.3205E+01	-4.4628E-01
	337.500	1.2899E+01	-5.3074E-01	337.500	1.3156E+01	-4.3021E-01
	343.125	1.2861E+01	-5.0259E-01	343.125	1.3110E+01	-4.1289E-01
	348.750	1.2791E+01	-4.8670E-01	348.750	1.3067E+01	-3.9485E-01
	354.375	1.2735E+01	-4.6686E-01	354.375	1.3026E+01	-3.7731E-01
	360.000	1.2722E+01	-4.3572E-01	360.000	1.3022E+01	-3.5044E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P624	BLADE #2	UPPER SURFACE	P625	BLADE #2	UPPER SURFACE
x/C = 0.7000		r/R = 0.9600	x/C = 0.8000		r/R = 0.9600
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.3304E+01	-2.7011E-01	0.000	1.3497E+01	-2.1518E-01
5.625	1.3302E+01	-2.5146E-01	5.625	1.3494E+01	-2.0062E-01
11.250	1.3287E+01	-2.3784E-01	11.250	1.3485E+01	-1.8901E-01
16.875	1.3263E+01	-2.2779E-01	16.875	1.3470E+01	-1.8014E-01
22.500	1.3226E+01	-2.2177E-01	22.500	1.3452E+01	-1.7308E-01
28.125	1.3183E+01	-2.1798E-01	28.125	1.3424E+01	-1.6881E-01
33.750	1.3142E+01	-2.1420E-01	33.750	1.3398E+01	-1.6499E-01
39.375	1.3096E+01	-2.1238E-01	39.375	1.3385E+01	-1.5935E-01
45.000	1.3080E+01	-2.0594E-01	45.000	1.3379E+01	-1.5344E-01
50.625	1.3062E+01	-2.0089E-01	50.625	1.3373E+01	-1.4840E-01
56.250	1.3062E+01	-1.9413E-01	56.250	1.3385E+01	-1.4156E-01
61.875	1.3055E+01	-1.8956E-01	61.875	1.3381E+01	-1.3811E-01
67.500	1.3035E+01	-1.8820E-01	67.500	1.3355E+01	-1.3872E-01
73.125	1.3051E+01	-1.8223E-01	73.125	1.3385E+01	-1.3170E-01
78.750	1.3057E+01	-1.7899E-01	78.750	1.3384E+01	-1.3003E-01
84.375	1.3042E+01	-1.7978E-01	84.375	1.3377E+01	-1.3002E-01
90.000	1.3031E+01	-1.8085E-01	90.000	1.3365E+01	-1.3148E-01
95.625	1.3020E+01	-1.8303E-01	95.625	1.3323E+01	-1.3807E-01
101.250	1.2971E+01	-1.9176E-01	101.250	1.3277E+01	-1.4610E-01
106.875	1.2984E+01	-1.9232E-01	106.875	1.3269E+01	-1.4925E-01
112.500	1.2970E+01	-1.9814E-01	112.500	1.3257E+01	-1.5394E-01
118.125	1.2956E+01	-2.0528E-01	118.125	1.3244E+01	-1.5967E-01
123.750	1.2958E+01	-2.1098E-01	123.750	1.3224E+01	-1.6777E-01
129.375	1.3021E+01	-2.0789E-01	129.375	1.3243E+01	-1.7041E-01
135.000	1.3065E+01	-2.0846E-01	135.000	1.3244E+01	-1.7705E-01
140.625	1.3057E+01	-2.1946E-01	140.625	1.3236E+01	-1.8666E-01
146.250	1.3022E+01	-2.3743E-01	146.250	1.3223E+01	-1.9859E-01
151.875	1.3024E+01	-2.5017E-01	151.875	1.3229E+01	-2.0851E-01
157.500	1.3005E+01	-2.6957E-01	157.500	1.3237E+01	-2.1942E-01
163.125	1.3015E+01	-2.8490E-01	163.125	1.3221E+01	-2.3750E-01
168.750	1.3003E+01	-3.0749E-01	168.750	1.3203E+01	-2.5835E-01
174.375	1.2977E+01	-3.3705E-01	174.375	1.3205E+01	-2.7683E-01
180.000	1.2997E+01	-3.5749E-01	180.000	1.3218E+01	-2.9457E-01
185.625	1.3004E+01	-3.8392E-01	185.625	1.3225E+01	-3.1618E-01
191.250	1.3027E+01	-4.0834E-01	191.250	1.3243E+01	-3.3644E-01
196.875	1.3040E+01	-4.3804E-01	196.875	1.3257E+01	-3.5963E-01
202.500	1.3052E+01	-4.7083E-01	202.500	1.3260E+01	-3.8932E-01
208.125	1.3072E+01	-5.0283E-01	208.125	1.3269E+01	-4.1879E-01
213.750	1.3086E+01	-5.3889E-01	213.750	1.3285E+01	-4.4714E-01
219.375	1.3109E+01	-5.7165E-01	219.375	1.3302E+01	-4.7558E-01
225.000	1.3138E+01	-6.0139E-01	225.000	1.3317E+01	-5.0468E-01
230.625	1.3176E+01	-6.2407E-01	230.625	1.3349E+01	-5.2358E-01
236.250	1.3198E+01	-6.5274E-01	236.250	1.3354E+01	-5.5585E-01
241.875	1.3215E+01	-6.8037E-01	241.875	1.3371E+01	-5.7833E-01
247.500	1.3254E+01	-6.8875E-01	247.500	1.3391E+01	-5.9461E-01
253.125	1.3276E+01	-7.0128E-01	253.125	1.3414E+01	-6.0205E-01
258.750	1.3303E+01	-7.0243E-01	258.750	1.3434E+01	-6.0555E-01
264.375	1.3317E+01	-7.0472E-01	264.375	1.3443E+01	-6.1000E-01
270.000	1.3328E+01	-7.0031E-01	270.000	1.3457E+01	-6.0285E-01
275.625	1.3339E+01	-6.8796E-01	275.625	1.3462E+01	-5.9532E-01
281.250	1.3358E+01	-6.6164E-01	281.250	1.3482E+01	-5.7032E-01
286.875	1.3366E+01	-6.3655E-01	286.875	1.3495E+01	-5.4393E-01
292.500	1.3311E+01	-6.4962E-01	292.500	1.3454E+01	-5.5095E-01
298.125	1.3168E+01	-7.1147E-01	298.125	1.3359E+01	-5.8649E-01
303.750	1.3061E+01	-7.3694E-01	303.750	1.3240E+01	-6.2691E-01
309.375	1.3070E+01	-6.8544E-01	309.375	1.3178E+01	-6.2274E-01
315.000	1.3239E+01	-5.4681E-01	315.000	1.3325E+01	-5.0071E-01
320.625	1.3391E+01	-4.3114E-01	320.625	1.3485E+01	-3.8402E-01
326.250	1.3427E+01	-3.8165E-01	326.250	1.3535E+01	-3.3166E-01
331.875	1.3427E+01	-3.5198E-01	331.875	1.3562E+01	-2.9438E-01
337.500	1.3380E+01	-3.4257E-01	337.500	1.3533E+01	-2.8272E-01
343.125	1.3360E+01	-3.2280E-01	343.125	1.3518E+01	-2.6572E-01
348.750	1.3323E+01	-3.0980E-01	348.750	1.3490E+01	-2.5415E-01
354.375	1.3303E+01	-2.9210E-01	354.375	1.3489E+01	-2.3517E-01
360.000	1.3304E+01	-2.7013E-01	360.000	1.3497E+01	-2.1520E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P627	BLADE #4	UPPER SURFACE r/R = 0.6850	CP	P629	BLADE #4	UPPER SURFACE r/R = 0.6850	CP
X/C = 0.0050	AZIMUTH	PSIA		X/C = 0.0700	AZIMUTH	PSIA	
	0.000	1.2693E+01	-8.7211E-01		0.000	1.1652E+01	-1.4532E+00
	5.625	1.3144E+01	-5.5903E-01		5.625	1.1631E+01	-1.3208E+00
	11.250	1.3712E+01	-2.4776E-01		11.250	1.1636E+01	-1.1959E+00
	16.875	1.4136E+01	-4.9206E-02		16.875	1.1563E+01	-1.1223E+00
	22.500	1.4486E+01	8.8957E-02		22.500	1.1401E+01	-1.0929E+00
	28.125	1.4731E+01	1.6887E-01		28.125	1.1133E+01	-1.1059E+00
	33.750	1.4875E+01	2.0494E-01		33.750	1.0752E+01	-1.1554E+00
	39.375	1.4998E+01	2.2996E-01		39.375	1.0337E+01	-1.2115E+00
	45.000	1.5114E+01	2.5110E-01		45.000	9.8907E+00	-1.2736E+00
	50.625	1.5334E+01	2.9945E-01		50.625	9.5043E+00	-1.3175E+00
	56.250	1.5485E+01	3.2664E-01		56.250	9.0761E+00	-1.3742E+00
	61.875	1.5684E+01	3.6565E-01		61.875	8.7502E+00	-1.4071E+00
	67.500	1.5948E+01	4.2005E-01		67.500	8.7066E+00	-1.3756E+00
	73.125	1.6375E+01	5.1363E-01		73.125	8.9492E+00	-1.2846E+00
	78.750	1.6525E+01	5.4060E-01		78.750	9.3639E+00	-1.1643E+00
	84.375	1.6380E+01	5.0111E-01		84.375	9.7289E+00	-1.0665E+00
	90.000	1.6682E+01	5.7020E-01		90.000	9.8962E+00	-1.0236E+00
	95.625	1.6972E+01	6.4054E-01		95.625	1.0282E+01	-9.3614E-01
	101.250	1.6878E+01	6.2457E-01		101.250	1.0459E+01	-9.0359E-01
	106.875	1.6767E+01	6.0851E-01		106.875	1.0255E+01	-9.6833E-01
	112.500	1.6813E+01	6.3440E-01		112.500	1.0185E+01	-1.0091E+00
	118.125	1.6794E+01	6.4923E-01		118.125	1.0181E+01	-1.0412E+00
	123.750	1.6792E+01	6.7360E-01		123.750	1.0430E+01	-1.0149E+00
	129.375	1.6728E+01	6.8620E-01		129.375	1.0719E+01	-9.8046E-01
	135.000	1.6698E+01	7.1333E-01		135.000	1.1071E+01	-9.2923E-01
	140.625	1.6612E+01	7.2909E-01		140.625	1.1280E+01	-9.1973E-01
	146.250	1.6322E+01	6.8217E-01		146.250	1.1254E+01	-9.8959E-01
	151.875	1.5968E+01	6.0735E-01		151.875	1.1231E+01	-1.0712E+00
	157.500	1.5554E+01	4.9800E-01		157.500	1.1141E+01	-1.1925E+00
	163.125	1.5039E+01	3.2730E-01		163.125	1.1007E+01	-1.3537E+00
	168.750	1.4528E+01	1.2511E-01		168.750	1.0916E+01	-1.5248E+00
	174.375	1.3944E+01	-1.5610E-01		174.375	1.0840E+01	-1.7193E+00
	180.000	1.3340E+01	-5.1029E-01		180.000	1.0781E+01	-1.9396E+00
	185.625	1.2679E+01	-9.8088E-01		185.625	1.0723E+01	-2.1997E+00
	191.250	1.1960E+01	-1.6019E+00		191.250	1.0683E+01	-2.4940E+00
	196.875	1.1244E+01	-2.3677E+00		196.875	1.0644E+01	-2.8394E+00
	202.500	1.0632E+01	-3.2203E+00		202.500	1.0568E+01	-3.2774E+00
	208.125	1.0140E+01	-4.1453E+00		208.125	1.0557E+01	-3.7258E+00
	213.750	9.8179E+00	-5.0730E+00		213.750	1.0933E+01	-3.7982E+00
	219.375	9.5189E+00	-6.1432E+00		219.375	1.1215E+01	-3.9429E+00
	225.000	9.3448E+00	-7.2093E+00		225.000	1.1316E+01	-4.3141E+00
	230.625	9.5051E+00	-7.8579E+00		230.625	1.1536E+01	-4.4976E+00
	236.250	9.7677E+00	-8.3046E+00		236.250	1.1746E+01	-4.6433E+00
	241.875	1.0108E+01	-8.4998E+00		241.875	1.1987E+01	-4.6484E+00
	247.500	1.0527E+01	-8.3528E+00		247.500	1.2219E+01	-4.5606E+00
	253.125	1.0886E+01	-8.1216E+00		253.125	1.2450E+01	-4.3498E+00
	258.750	1.1221E+01	-7.7238E+00		258.750	1.2681E+01	-4.0053E+00
	264.375	1.1502E+01	-7.2479E+00		264.375	1.2922E+01	-3.5085E+00
	270.000	1.1723E+01	-6.7415E+00		270.000	1.3059E+01	-3.1828E+00
	275.625	1.1825E+01	-6.3967E+00		275.625	1.3031E+01	-3.2220E+00
	281.250	1.1931E+01	-5.9163E+00		281.250	1.3139E+01	-2.8388E+00
	286.875	1.2040E+01	-5.3399E+00		286.875	1.3262E+01	-2.3917E+00
	292.500	1.2091E+01	-4.8482E+00		292.500	1.3157E+01	-2.4598E+00
	298.125	1.2231E+01	-4.1487E+00		298.125	1.3112E+01	-2.3420E+00
	303.750	1.2433E+01	-3.3723E+00		303.750	1.3149E+01	-2.0463E+00
	309.375	1.2538E+01	-2.8403E+00		309.375	1.3078E+01	-1.9457E+00
	315.000	1.2659E+01	-2.3426E+00		315.000	1.2952E+01	-1.9131E+00
	320.625	1.2622E+01	-2.1181E+00		320.625	1.2848E+01	-1.8245E+00
	326.250	1.2556E+01	-1.9421E+00		326.250	1.2703E+01	-1.7738E+00
	331.875	1.2373E+01	-1.8963E+00		331.875	1.2494E+01	-1.7742E+00
	337.500	1.2367E+01	-1.6784E+00		337.500	1.2271E+01	-1.7636E+00
	343.125	1.1696E+01	-2.0126E+00		343.125	1.1806E+01	-1.9262E+00
	348.750	1.1244E+01	-2.1026E+00		348.750	1.1458E+01	-1.9529E+00
	354.375	1.2198E+01	-1.2807E+00		354.375	1.1646E+01	-1.6247E+00
	360.000	1.2693E+01	-8.7221E-01		360.000	1.1652E+01	-1.4534E+00

Table 11 (Continued). TABULATED PRESSURE DATA

P630 x/C = 0.1500	BLADE #4	UPPER SURFACE r/R = 0.6850	P631 x/C = 0.2500	BLADE #4	UPPER SURFACE r/R = 0.6850
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.2285E+01	-1.0998E+00	0.000	1.2970E+01	-7.1733E-01
5.625	1.2067E+01	-1.1016E+00	5.625	1.2932E+01	-6.6578E-01
11.250	1.2043E+01	-1.0100E+00	11.250	1.2904E+01	-6.1673E-01
16.875	1.1974E+01	-9.5087E-01	16.875	1.2854E+01	-5.8373E-01
22.500	1.1855E+01	-9.1923E-01	22.500	1.2770E+01	-5.6865E-01
28.125	1.1634E+01	-9.2852E-01	28.125	1.2641E+01	-5.7174E-01
33.750	1.1349E+01	-9.5835E-01	33.750	1.2451E+01	-5.9473E-01
39.375	1.1002E+01	-1.0056E+00	39.375	1.2249E+01	-6.2017E-01
45.000	1.0645E+01	-1.0534E+00	45.000	1.2033E+01	-6.4833E-01
50.625	1.0316E+01	-1.0923E+00	50.625	1.1867E+01	-6.6223E-01
56.250	9.9840E+00	-1.1332E+00	56.250	1.1687E+01	-6.8137E-01
61.875	9.7154E+00	-1.1604E+00	61.875	1.1574E+01	-6.8523E-01
67.500	9.6339E+00	-1.1457E+00	67.500	1.1547E+01	-6.7129E-01
73.125	9.7395E+00	-1.0932E+00	73.125	1.1608E+01	-6.4065E-01
78.750	9.9108E+00	-1.0341E+00	78.750	1.1634E+01	-6.2374E-01
84.375	1.0148E+01	-9.6781E-01	84.375	1.1682E+01	-6.0622E-01
90.000	1.0245E+01	-9.4165E-01	90.000	1.1753E+01	-5.8732E-01
95.625	1.0409E+01	-9.0621E-01	95.625	1.1824E+01	-5.7279E-01
101.250	1.0550E+01	-8.8183E-01	101.250	1.1827E+01	-5.7780E-01
106.875	1.0537E+01	-9.0002E-01	106.875	1.1866E+01	-5.7827E-01
112.500	1.0627E+01	-8.9938E-01	112.500	1.1953E+01	-5.7059E-01
118.125	1.0686E+01	-9.1215E-01	118.125	1.2010E+01	-5.7371E-01
123.750	1.0866E+01	-8.9905E-01	123.750	1.2104E+01	-5.7069E-01
129.375	1.1033E+01	-8.9357E-01	129.375	1.2203E+01	-5.6906E-01
135.000	1.1225E+01	-8.8417E-01	135.000	1.2255E+01	-5.8363E-01
140.625	1.1347E+01	-8.9887E-01	140.625	1.2211E+01	-6.3190E-01
146.250	1.1405E+01	-9.3999E-01	146.250	1.2223E+01	-6.6992E-01
151.875	1.1470E+01	-9.8646E-01	151.875	1.2245E+01	-7.1169E-01
157.500	1.1480E+01	-1.0626E+00	157.500	1.2254E+01	-7.6638E-01
163.125	1.1468E+01	-1.1617E+00	163.125	1.2406E+01	-7.7071E-01
168.750	1.1468E+01	-1.2725E+00	168.750	1.2533E+01	-7.8606E-01
174.375	1.1429E+01	-1.4225E+00	174.375	1.2475E+01	-8.9578E-01
180.000	1.1415E+01	-1.5854E+00	180.000	1.2495E+01	-9.8218E-01
185.625	1.1639E+01	-1.6291E+00	185.625	1.2498E+01	-1.0939E+00
191.250	1.1724E+01	-1.7669E+00	191.250	1.2536E+01	-1.2002E+00
196.875	1.1657E+01	-2.0427E+00	196.875	1.2566E+01	-1.3282E+00
202.500	1.1742E+01	-2.2334E+00	202.500	1.2638E+01	-1.4368E+00
208.125	1.1796E+01	-2.4774E+00	208.125	1.2686E+01	-1.5800E+00
213.750	1.1910E+01	-2.6806E+00	213.750	1.2771E+01	-1.6956E+00
219.375	1.2025E+01	-2.8923E+00	219.375	1.2842E+01	-1.8319E+00
225.000	1.2162E+01	-3.0727E+00	225.000	1.2933E+01	-1.9399E+00
230.625	1.2304E+01	-3.2275E+00	230.625	1.3017E+01	-2.0474E+00
236.250	1.2449E+01	-3.3419E+00	236.250	1.3107E+01	-2.1240E+00
241.875	1.2583E+01	-3.4255E+00	241.875	1.3177E+01	-2.2092E+00
247.500	1.2730E+01	-3.4151E+00	247.500	1.3241E+01	-2.2716E+00
253.125	1.2875E+01	-3.3244E+00	253.125	1.3271E+01	-2.3695E+00
258.750	1.2979E+01	-3.2475E+00	258.750	1.3295E+01	-2.4416E+00
264.375	1.3046E+01	-3.1805E+00	264.375	1.3289E+01	-2.5424E+00
270.000	1.3061E+01	-3.1782E+00	270.000	1.3275E+01	-2.6079E+00
275.625	1.3070E+01	-3.1191E+00	275.625	1.3309E+01	-2.4903E+00
281.250	1.3183E+01	-2.7280E+00	281.250	1.3401E+01	-2.1733E+00
286.875	1.3166E+01	-2.6236E+00	286.875	1.3425E+01	-1.9981E+00
292.500	1.3187E+01	-2.3919E+00	292.500	1.3475E+01	-1.7464E+00
298.125	1.3308E+01	-1.9408E+00	298.125	1.3557E+01	-1.4294E+00
303.750	1.3357E+01	-1.6612E+00	303.750	1.3608E+01	-1.1956E+00
309.375	1.3286E+01	-1.6022E+00	309.375	1.3657E+01	-9.8800E-01
315.000	1.3206E+01	-1.5394E+00	315.000	1.3624E+01	-9.2497E-01
320.625	1.3127E+01	-1.4632E+00	320.625	1.3538E+01	-9.2861E-01
326.250	1.3014E+01	-1.4178E+00	326.250	1.3442E+01	-9.2903E-01
331.875	1.2897E+01	-1.3677E+00	331.875	1.3362E+01	-8.9928E-01
337.500	1.2746E+01	-1.3411E+00	337.500	1.3263E+01	-8.8103E-01
343.125	1.2467E+01	-1.4058E+00	343.125	1.3099E+01	-9.0891E-01
348.750	1.2234E+01	-1.4111E+00	348.750	1.2982E+01	-8.8879E-01
354.375	1.2363E+01	-1.1780E+00	354.375	1.2999E+01	-7.8216E-01
360.000	1.2285E+01	-1.0999E+00	360.000	1.2970E+01	-7.1741E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P632	BLADE #4 x/C = 0.4000	UPPER SURFACE r/R = 0.6850	CP	P633	BLADE #4 x/C = 0.5500	UPPER SURFACE r/R = 0.6850	CP
AZIMUTH	PSIA			AZIMUTH	PSIA		
0.000	1.3238E+01	-5.6771E-01		0.000	1.3155E+01	-6.1403E-01	
5.625	1.3175E+01	-5.4370E-01		5.625	1.3100E+01	-5.8115E-01	
11.250	1.3096E+01	-5.2885E-01		11.250	1.3041E+01	-5.5419E-01	
16.875	1.3001E+01	-5.2247E-01		16.875	1.2962E+01	-5.3865E-01	
22.500	1.2872E+01	-5.2935E-01		22.500	1.2858E+01	-5.3473E-01	
28.125	1.2712E+01	-5.4641E-01		28.125	1.2737E+01	-5.3753E-01	
33.750	1.2524E+01	-5.7063E-01		33.750	1.2600E+01	-5.4571E-01	
39.375	1.2335E+01	-5.9364E-01		39.375	1.2477E+01	-5.4951E-01	
45.000	1.2133E+01	-6.1907E-01		45.000	1.2332E+01	-5.6090E-01	
50.625	1.1968E+01	-6.3406E-01		50.625	1.2221E+01	-5.6388E-01	
56.250	1.1793E+01	-6.5312E-01		56.250	1.2108E+01	-5.6962E-01	
61.875	1.1664E+01	-6.6208E-01		61.875	1.2025E+01	-5.6993E-01	
67.500	1.1621E+01	-6.5291E-01		67.500	1.2007E+01	-5.5710E-01	
73.125	1.1604E+01	-6.4182E-01		73.125	1.1979E+01	-5.5084E-01	
78.750	1.1624E+01	-6.2609E-01		78.750	1.2002E+01	-5.3630E-01	
84.375	1.1687E+01	-6.0492E-01		84.375	1.2042E+01	-5.2137E-01	
90.000	1.1732E+01	-5.9245E-01		90.000	1.2065E+01	-5.1407E-01	
95.625	1.1775E+01	-5.8434E-01		95.625	1.2071E+01	-5.1455E-01	
101.250	1.1787E+01	-5.8736E-01		101.250	1.2073E+01	-5.1938E-01	
106.875	1.1848E+01	-5.8274E-01		106.875	1.2142E+01	-5.1134E-01	
112.500	1.1921E+01	-5.7848E-01		112.500	1.2183E+01	-5.1345E-01	
118.125	1.1988E+01	-5.7924E-01		118.125	1.2236E+01	-5.1602E-01	
123.750	1.2092E+01	-5.7366E-01		123.750	1.2296E+01	-5.1974E-01	
129.375	1.2190E+01	-5.7242E-01		129.375	1.2368E+01	-5.2306E-01	
135.000	1.2274E+01	-5.7805E-01		135.000	1.2413E+01	-5.3751E-01	
140.625	1.2358E+01	-5.8638E-01		140.625	1.2463E+01	-5.5391E-01	
146.250	1.2430E+01	-6.0166E-01		146.250	1.2511E+01	-5.7497E-01	
151.875	1.2474E+01	-6.3060E-01		151.875	1.2557E+01	-6.0132E-01	
157.500	1.2510E+01	-6.6822E-01		157.500	1.2586E+01	-6.3900E-01	
163.125	1.2553E+01	-7.0918E-01		163.125	1.2629E+01	-6.7752E-01	
168.750	1.2631E+01	-7.4140E-01		168.750	1.2702E+01	-7.0909E-01	
174.375	1.2698E+01	-7.8347E-01		174.375	1.2756E+01	-7.5442E-01	
180.000	1.2759E+01	-8.3524E-01		180.000	1.2815E+01	-8.0362E-01	
185.625	1.2827E+01	-8.8922E-01		185.625	1.2870E+01	-8.6207E-01	
191.250	1.2889E+01	-9.5355E-01		191.250	1.2929E+01	-9.2548E-01	
196.875	1.2961E+01	-1.0172E+00		196.875	1.2996E+01	-9.8954E-01	
202.500	1.3046E+01	-1.0738E+00		202.500	1.3060E+01	-1.0621E+00	
208.125	1.3126E+01	-1.1366E+00		208.125	1.3128E+01	-1.1343E+00	
213.750	1.3215E+01	-1.1887E+00		213.750	1.3189E+01	-1.2178E+00	
219.375	1.3310E+01	-1.2245E+00		219.375	1.3275E+01	-1.2703E+00	
225.000	1.3400E+01	-1.2542E+00		225.000	1.3345E+01	-1.3356E+00	
230.625	1.3481E+01	-1.2785E+00		230.625	1.3399E+01	-1.4141E+00	
236.250	1.3577E+01	-1.2526E+00		236.250	1.3474E+01	-1.4446E+00	
241.875	1.3650E+01	-1.2381E+00		241.875	1.3514E+01	-1.5178E+00	
247.500	1.3711E+01	-1.2179E+00		247.500	1.3548E+01	-1.5834E+00	
253.125	1.3720E+01	-1.2869E+00		253.125	1.3563E+01	-1.6661E+00	
258.750	1.3699E+01	-1.4145E+00		258.750	1.3569E+01	-1.7431E+00	
264.375	1.3641E+01	-1.6152E+00		264.375	1.3547E+01	-1.8616E+00	
270.000	1.3606E+01	-1.7275E+00		270.000	1.3487E+01	-2.0435E+00	
275.625	1.3624E+01	-1.6602E+00		275.625	1.3421E+01	-2.1931E+00	
281.250	1.3642E+01	-1.5586E+00		281.250	1.3392E+01	-2.1942E+00	
286.875	1.3703E+01	-1.3285E+00		286.875	1.3447E+01	-1.9472E+00	
292.500	1.3745E+01	-1.1419E+00		292.500	1.3502E+01	-1.6864E+00	
298.125	1.3820E+01	-8.9044E-01		298.125	1.3569E+01	-1.4042E+00	
303.750	1.3858E+01	-7.3328E-01		303.750	1.3637E+01	-1.1422E+00	
309.375	1.3839E+01	-6.8705E-01		309.375	1.3623E+01	-1.0438E+00	
315.000	1.3845E+01	-6.0097E-01		315.000	1.3568E+01	-1.0072E+00	
320.625	1.3819E+01	-5.6454E-01		320.625	1.3546E+01	-9.1880E-01	
326.250	1.3714E+01	-6.1737E-01		326.250	1.3504E+01	-8.5822E-01	
331.875	1.3636E+01	-6.2264E-01		331.875	1.3453E+01	-8.0764E-01	
337.500	1.3551E+01	-6.2552E-01		337.500	1.3388E+01	-7.7021E-01	
343.125	1.3417E+01	-6.5869E-01		343.125	1.3293E+01	-7.5604E-01	
348.750	1.3325E+01	-6.4883E-01		348.750	1.3229E+01	-7.1582E-01	
354.375	1.3291E+01	-5.9990E-01		354.375	1.3201E+01	-6.5617E-01	
360.000	1.3238E+01	-5.6778E-01		360.000	1.3155E+01	-6.1410E-01	

Table 11 (Continued). TABULATED PRESSURE DATA

P634 x/C = 0.7000	BLADE #4	UPPER SURFACE r/R = 0.6850	P635 x/C = 0.8000	BLADE #4	UPPER SURFACE r/R = 0.6850
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.3564E+01	-3.8515E-01	0.000	1.4337E+01	4.6117E-02
5.625	1.3577E+01	-3.4102E-01	5.625	1.4351E+01	4.8621E-02
11.250	1.3533E+01	-3.2948E-01	11.250	1.4364E+01	5.0084E-02
16.875	1.3503E+01	-3.1334E-01	16.875	1.4359E+01	4.3784E-02
22.500	1.3456E+01	-3.0586E-01	22.500	1.4357E+01	3.9265E-02
28.125	1.3405E+01	-3.0103E-01	28.125	1.4352E+01	3.4843E-02
33.750	1.3372E+01	-2.9109E-01	33.750	1.4359E+01	3.4727E-02
39.375	1.3308E+01	-2.9259E-01	39.375	1.4367E+01	3.5055E-02
45.000	1.3266E+01	-2.8853E-01	45.000	1.4352E+01	2.8544E-02
50.625	1.3231E+01	-2.8391E-01	50.625	1.4368E+01	3.1744E-02
56.250	1.3198E+01	-2.8024E-01	56.250	1.4372E+01	3.1211E-02
61.875	1.3191E+01	-2.7183E-01	61.875	1.4380E+01	3.2281E-02
67.500	1.3217E+01	-2.5709E-01	67.500	1.4416E+01	4.0062E-02
73.125	1.3208E+01	-2.5326E-01	73.125	1.4448E+01	4.7012E-02
78.750	1.3251E+01	-2.3891E-01	78.750	1.4485E+01	5.4974E-02
84.375	1.3243E+01	-2.3816E-01	84.375	1.4467E+01	5.0150E-02
90.000	1.3259E+01	-2.3376E-01	90.000	1.4475E+01	5.1904E-02
95.625	1.3276E+01	-2.3040E-01	95.625	1.4505E+01	5.9200E-02
101.250	1.3246E+01	-2.3999E-01	101.250	1.4468E+01	5.0909E-02
106.875	1.3292E+01	-2.3301E-01	106.875	1.4491E+01	5.7263E-02
112.500	1.3312E+01	-2.3368E-01	112.500	1.4509E+01	6.3105E-02
118.125	1.3339E+01	-2.3384E-01	118.125	1.4516E+01	6.6952E-02
123.750	1.3358E+01	-2.3777E-01	123.750	1.4526E+01	7.2014E-02
129.375	1.3375E+01	-2.4391E-01	129.375	1.4526E+01	7.5562E-02
135.000	1.3378E+01	-2.5563E-01	135.000	1.4505E+01	7.3276E-02
140.625	1.3381E+01	-2.6989E-01	140.625	1.4485E+01	7.1357E-02
146.250	1.3390E+01	-2.8500E-01	146.250	1.4465E+01	6.9736E-02
151.875	1.3380E+01	-3.0978E-01	151.875	1.4424E+01	6.0014E-02
157.500	1.3378E+01	-3.3547E-01	157.500	1.4392E+01	5.2688E-02
163.125	1.3395E+01	-3.5824E-01	163.125	1.4366E+01	4.6465E-02
168.750	1.3415E+01	-3.8331E-01	168.750	1.4363E+01	4.9942E-02
174.375	1.3427E+01	-4.1637E-01	174.375	1.4342E+01	4.4058E-02
180.000	1.3442E+01	-4.5373E-01	180.000	1.4329E+01	4.1690E-02
185.625	1.3465E+01	-4.9176E-01	185.625	1.4327E+01	4.5458E-02
191.250	1.3492E+01	-5.3219E-01	191.250	1.4319E+01	4.5324E-02
196.875	1.3515E+01	-5.8147E-01	196.875	1.4314E+01	4.7451E-02
202.500	1.3555E+01	-6.2183E-01	202.500	1.4323E+01	6.1262E-02
208.125	1.3594E+01	-6.6552E-01	208.125	1.4318E+01	6.4625E-02
213.750	1.3609E+01	-7.3729E-01	213.750	1.4324E+01	8.0441E-02
219.375	1.3670E+01	-7.5719E-01	219.375	1.4326E+01	9.3021E-02
225.000	1.3672E+01	-8.5527E-01	225.000	1.4321E+01	9.8159E-02
230.625	1.3708E+01	-9.0414E-01	230.625	1.4312E+01	9.5117E-02
236.250	1.3710E+01	-1.0079E+00	236.250	1.4308E+01	1.0052E-01
241.875	1.3701E+01	-1.1334E+00	241.875	1.4296E+01	8.6572E-02
247.500	1.3716E+01	-1.2058E+00	247.500	1.4288E+01	7.5248E-02
253.125	1.3732E+01	-1.2599E+00	253.125	1.4276E+01	5.2284E-02
258.750	1.3716E+01	-1.3699E+00	258.750	1.4286E+01	8.1820E-02
264.375	1.3722E+01	-1.4010E+00	264.375	1.4309E+01	1.4316E-01
270.000	1.3730E+01	-1.3960E+00	270.000	1.4316E+01	1.6583E-01
275.625	1.3645E+01	-1.6037E+00	275.625	1.4273E+01	4.9207E-02
281.250	1.3545E+01	-1.8062E+00	281.250	1.4185E+01	-1.7585E-01
286.875	1.3562E+01	-1.6684E+00	286.875	1.4139E+01	-2.7710E-01
292.500	1.3633E+01	-1.3923E+00	292.500	1.4180E+01	-1.6684E-01
298.125	1.3674E+01	-1.1898E+00	298.125	1.4245E+01	-1.9193E-02
303.750	1.3692E+01	-1.0409E+00	303.750	1.4232E+01	-4.1125E-02
309.375	1.3701E+01	-9.1575E-01	309.375	1.4238E+01	-2.6933E-02
315.000	1.3680E+01	-8.4352E-01	315.000	1.4245E+01	-1.3894E-02
320.625	1.3695E+01	-7.2523E-01	320.625	1.4256E+01	2.2844E-03
326.250	1.3674E+01	-6.6331E-01	326.250	1.4267E+01	1.5135E-02
331.875	1.3691E+01	-5.6729E-01	331.875	1.4302E+01	4.8790E-02
337.500	1.3677E+01	-5.1299E-01	337.500	1.4309E+01	4.9294E-02
343.125	1.3631E+01	-4.9050E-01	343.125	1.4301E+01	3.7115E-02
348.750	1.3614E+01	-4.4692E-01	348.750	1.4318E+01	4.4663E-02
354.375	1.3608E+01	-4.0276E-01	354.375	1.4328E+01	4.5891E-02
360.000	1.3564E+01	-3.8519E-01	360.000	1.4337E+01	4.6122E-02

Table 11 (Continued). TABULATED PRESSURE DATA

P636 x/C = 1.0000	BLADE #4 AZIMUTH	UPPER SURFACE r/R = 0.6850 PSIA	CP	P637 x/C = 0.0050	BLADE #4 AZIMUTH	UPPER SURFACE r/R = 0.7300 PSIA	CP
0.000	1.4042E+01	-1.1864E-01		0.000	1.2439E+01	-8.9250E-01	
5.625	1.4087E+01	-8.4421E-02		5.625	1.2972E+01	-5.7211E-01	
11.250	1.4095E+01	-7.2826E-02		11.250	1.3615E+01	-2.6016E-01	
16.875	1.4099E+01	-6.4819E-02		16.875	1.4163E+01	-3.4112E-02	
22.500	1.4095E+01	-6.1092E-02		22.500	1.4585E+01	1.1408E-01	
28.125	1.4110E+01	-5.0941E-02		28.125	1.4886E+01	2.0211E-01	
33.750	1.4201E+01	-1.7368E-02		33.750	1.5109E+01	2.5564E-01	
39.375	1.4243E+01	-3.3381E-03		39.375	1.5238E+01	2.7652E-01	
45.000	1.4250E+01	-1.3495E-03		45.000	1.5432E+01	3.1341E-01	
50.625	1.4314E+01	1.6616E-02		50.625	1.5644E+01	3.5203E-01	
56.250	1.4374E+01	3.1719E-02		56.250	1.5840E+01	3.8523E-01	
61.875	1.4365E+01	2.8388E-02		61.875	1.5979E+01	4.0431E-01	
67.500	1.4364E+01	2.7352E-02		67.500	1.6359E+01	4.7905E-01	
73.125	1.4388E+01	3.2387E-02		73.125	1.6706E+01	5.4556E-01	
78.750	1.4407E+01	3.6435E-02		78.750	1.6617E+01	5.1729E-01	
84.375	1.4389E+01	3.1807E-02		84.375	1.6719E+01	5.3430E-01	
90.000	1.4377E+01	2.8830E-02		90.000	1.7122E+01	6.1969E-01	
95.625	1.4395E+01	3.3151E-02		95.625	1.7186E+01	6.3549E-01	
101.250	1.4383E+01	3.0597E-02		101.250	1.7270E+01	6.6019E-01	
106.875	1.4406E+01	3.6686E-02		106.875	1.7372E+01	6.9375E-01	
112.500	1.4402E+01	3.6649E-02		112.500	1.7453E+01	7.2808E-01	
118.125	1.4407E+01	3.9099E-02		118.125	1.7472E+01	7.5421E-01	
123.750	1.4404E+01	3.9674E-02		123.750	1.7531E+01	7.9602E-01	
129.375	1.4406E+01	4.2104E-02		129.375	1.7659E+01	8.6261E-01	
135.000	1.4380E+01	3.6896E-02		135.000	1.7567E+01	8.8136E-01	
140.625	1.4355E+01	3.1227E-02		140.625	1.7284E+01	8.5161E-01	
146.250	1.4337E+01	2.7300E-02		146.250	1.6976E+01	8.1359E-01	
151.875	1.4308E+01	1.9172E-02		151.875	1.6594E+01	7.4851E-01	
157.500	1.4286E+01	1.2204E-02		157.500	1.6163E+01	6.5769E-01	
163.125	1.4254E+01	1.3758E-04		163.125	1.5634E+01	5.1535E-01	
168.750	1.4243E+01	-5.2758E-03		168.750	1.5089E+01	3.3965E-01	
174.375	1.4212E+01	-2.0946E-02		174.375	1.4498E+01	1.0896E-01	
180.000	1.4184E+01	-3.9397E-02		180.000	1.3899E+01	-1.7466E-01	
185.625	1.4160E+01	-5.8887E-02		185.625	1.3247E+01	-5.4865E-01	
191.250	1.4129E+01	-8.7638E-02		191.250	1.2570E+01	-1.0210E+00	
196.875	1.4099E+01	-1.2191E-01		196.875	1.1878E+01	-1.6086E+00	
202.500	1.4080E+01	-1.5506E-01		202.500	1.1233E+01	-2.2903E+00	
208.125	1.4049E+01	-2.0707E-01		208.125	1.0651E+01	-3.0663E+00	
213.750	1.4024E+01	-2.6361E-01		213.750	1.0244E+01	-3.8313E+00	
219.375	1.4004E+01	-3.2453E-01		219.375	9.8479E+00	-4.7232E+00	
225.000	1.3977E+01	-4.0623E-01		225.000	9.6133E+00	-5.5661E+00	
230.625	1.3958E+01	-4.8982E-01		230.625	9.6884E+00	-6.0977E+00	
236.250	1.3951E+01	-5.6020E-01		236.250	9.9113E+00	-6.4131E+00	
241.875	1.3922E+01	-6.8186E-01		241.875	1.0138E+01	-6.6578E+00	
247.500	1.3899E+01	-7.9469E-01		247.500	1.0398E+01	-6.7502E+00	
253.125	1.3881E+01	-8.9931E-01		253.125	1.0667E+01	-6.6965E+00	
258.750	1.3870E+01	-9.7759E-01		258.750	1.0934E+01	-6.5018E+00	
264.375	1.3866E+01	-1.0207E+00		264.375	1.1173E+01	-6.2144E+00	
270.000	1.3885E+01	-9.8213E-01		270.000	1.1539E+01	-5.5308E+00	
275.625	1.3902E+01	-9.2697E-01		275.625	1.1865E+01	-4.8192E+00	
281.250	1.3883E+01	-9.4457E-01		281.250	1.2037E+01	-4.3420E+00	
286.875	1.3848E+01	-9.7936E-01		286.875	1.2084E+01	-4.0524E+00	
292.500	1.3796E+01	-1.0269E+00		292.500	1.1906E+01	-4.1111E+00	
298.125	1.3796E+01	-9.3857E-01		298.125	1.2001E+01	-3.6442E+00	
303.750	1.3808E+01	-8.2562E-01		303.750	1.2117E+01	-3.1570E+00	
309.375	1.3807E+01	-7.3959E-01		309.375	1.2337E+01	-2.5614E+00	
315.000	1.3840E+01	-6.0831E-01		315.000	1.2362E+01	-2.2702E+00	
320.625	1.3875E+01	-4.9156E-01		320.625	1.2412E+01	-1.9746E+00	
326.250	1.3889E+01	-4.1726E-01		326.250	1.2271E+01	-1.8950E+00	
331.875	1.3881E+01	-3.7641E-01		331.875	1.2182E+01	-1.7632E+00	
337.500	1.3889E+01	-3.2465E-01		337.500	1.1997E+01	-1.7117E+00	
343.125	1.3949E+01	-2.4023E-01		343.125	1.1894E+01	-1.5977E+00	
348.750	1.3985E+01	-1.8796E-01		348.750	1.1221E+01	-1.8388E+00	
354.375	1.4017E+01	-1.4755E-01		354.375	1.1297E+01	-1.6109E+00	
360.000	1.4042E+01	-1.1865E-01		360.000	1.2439E+01	-8.9259E-01	

Table 11 (Continued). TABULATED PRESSURE DATA

P638 x/C = 0.0260	BLADE #4	UPPER SURFACE r/R = 0.7300	CP	P639 x/C = 0.0700	BLADE #4	UPPER SURFACE r/R = 0.7300	CP
AZIMUTH	PSIA			AZIMUTH	PSIA		
0.000	1.1062E+01	-1.5698E+00		0.000	1.1276E+01	-1.4646E+00	
5.625	1.1291E+01	-1.3220E+00		5.625	1.1257E+01	-1.3374E+00	
11.250	1.1629E+01	-1.0684E+00		11.250	1.1270E+01	-1.2146E+00	
16.875	1.1893E+01	-8.8148E-01		16.875	1.1236E+01	-1.1268E+00	
22.500	1.2031E+01	-7.6590E-01		22.500	1.1089E+01	-1.0907E+00	
28.125	1.2040E+01	-7.0828E-01		28.125	1.0828E+01	-1.0963E+00	
33.750	1.1972E+01	-6.8212E-01		33.750	1.0472E+01	-1.1307E+00	
39.375	1.1832E+01	-6.8082E-01		39.375	9.9914E+00	-1.1983E+00	
45.000	1.1748E+01	-6.6681E-01		45.000	9.4988E+00	-1.2650E+00	
50.625	1.1741E+01	-6.3664E-01		50.625	8.9831E+00	-1.3355E+00	
56.250	1.1775E+01	-6.0222E-01		56.250	8.5527E+00	-1.3848E+00	
61.875	1.1837E+01	-5.6655E-01		61.875	8.4013E+00	-1.3717E+00	
67.500	1.2098E+01	-4.9076E-01		67.500	8.4735E+00	-1.3157E+00	
73.125	1.2452E+01	-4.0099E-01		73.125	8.7214E+00	-1.2309E+00	
78.750	1.2571E+01	-3.6846E-01		78.750	8.9606E+00	-1.1588E+00	
84.375	1.2662E+01	-3.4521E-01		84.375	9.1350E+00	-1.1097E+00	
90.000	1.3083E+01	-2.5294E-01		90.000	9.4943E+00	-1.0285E+00	
95.625	1.3202E+01	-2.2815E-01		95.625	9.8937E+00	-9.4523E-01	
101.250	1.3119E+01	-2.4850E-01		101.250	9.8102E+00	-9.7278E-01	
106.875	1.3221E+01	-2.2979E-01		106.875	9.6733E+00	-1.0192E+00	
112.500	1.3415E+01	-1.9102E-01		112.500	9.9297E+00	-9.8426E-01	
118.125	1.3533E+01	-1.6896E-01		118.125	1.0233E+01	-9.4230E-01	
123.750	1.3784E+01	-1.1421E-01		123.750	1.0802E+01	-8.3856E-01	
129.375	1.4241E+01	-3.3031E-03		129.375	1.1456E+01	-7.0887E-01	
135.000	1.4289E+01	9.3363E-03		135.000	1.1672E+01	-6.8684E-01	
140.625	1.4074E+01	-5.0613E-02		140.625	1.1639E+01	-7.3501E-01	
146.250	1.3864E+01	-1.1652E-01		146.250	1.1617E+01	-7.8830E-01	
151.875	1.3554E+01	-2.2406E-01		151.875	1.1518E+01	-8.7544E-01	
157.500	1.3216E+01	-3.5768E-01		157.500	1.1399E+01	-9.8369E-01	
163.125	1.2778E+01	-5.5131E-01		163.125	1.1231E+01	-1.1286E+00	
168.750	1.2352E+01	-7.7426E-01		168.750	1.1094E+01	-1.2859E+00	
174.375	1.1929E+01	-1.0372E+00		174.375	1.0976E+01	-1.4628E+00	
180.000	1.1554E+01	-1.3276E+00		180.000	1.0884E+01	-1.6572E+00	
185.625	1.1148E+01	-1.6921E+00		185.625	1.0809E+01	-1.8769E+00	
191.250	1.0754E+01	-2.1216E+00		191.250	1.0728E+01	-2.1369E+00	
196.875	1.0380E+01	-2.6226E+00		196.875	1.0686E+01	-2.4156E+00	
202.500	1.0065E+01	-3.1764E+00		202.500	1.0637E+01	-2.7427E+00	
208.125	9.8143E+00	-3.7778E+00		208.125	1.0608E+01	-3.1026E+00	
213.750	9.6929E+00	-4.3582E+00		213.750	1.0555E+01	-3.5340E+00	
219.375	9.5951E+00	-4.9942E+00		219.375	1.0835E+01	-3.6653E+00	
225.000	9.6383E+00	-5.5360E+00		225.000	1.1168E+01	-3.7018E+00	
230.625	9.8087E+00	-5.9370E+00		230.625	1.1227E+01	-4.0429E+00	
236.250	1.0093E+01	-6.1454E+00		236.250	1.1487E+01	-4.0867E+00	
241.875	1.0344E+01	-6.3235E+00		241.875	1.1662E+01	-4.1929E+00	
247.500	1.0654E+01	-6.3007E+00		247.500	1.1912E+01	-4.1000E+00	
253.125	1.0924E+01	-6.2174E+00		253.125	1.2099E+01	-4.0243E+00	
258.750	1.1215E+01	-5.9526E+00		258.750	1.2308E+01	-3.8108E+00	
264.375	1.1412E+01	-5.7327E+00		264.375	1.2477E+01	-3.5833E+00	
270.000	1.1906E+01	-4.7827E+00		270.000	1.2993E+01	-2.5691E+00	
275.625	1.2312E+01	-3.9164E+00		275.625	1.3228E+01	-2.0693E+00	
281.250	1.2515E+01	-3.4054E+00		281.250	1.3314E+01	-1.8422E+00	
286.875	1.2536E+01	-3.2076E+00		286.875	1.3281E+01	-1.8175E+00	
292.500	1.2213E+01	-3.5726E+00		292.500	1.3138E+01	-1.9541E+00	
298.125	1.2229E+01	-3.2758E+00		298.125	1.3120E+01	-1.8347E+00	
303.750	1.2114E+01	-3.1604E+00		303.750	1.2870E+01	-2.0446E+00	
309.375	1.2215E+01	-2.7244E+00		309.375	1.2821E+01	-1.9149E+00	
315.000	1.2180E+01	-2.4880E+00		315.000	1.2686E+01	-1.8814E+00	
320.625	1.2130E+01	-2.2778E+00		320.625	1.2643E+01	-1.7277E+00	
326.250	1.1892E+01	-2.2574E+00		326.250	1.2413E+01	-1.7590E+00	
331.875	1.1711E+01	-2.1641E+00		331.875	1.2239E+01	-1.7151E+00	
337.500	1.1402E+01	-2.1626E+00		337.500	1.1956E+01	-1.7430E+00	
343.125	1.1133E+01	-2.1129E+00		343.125	1.1707E+01	-1.7245E+00	
348.750	1.0430E+01	-2.3179E+00		348.750	1.1166E+01	-1.8717E+00	
354.375	1.0372E+01	-2.1153E+00		354.375	1.1002E+01	-1.7716E+00	
360.000	1.1062E+01	-1.5700E+00		360.000	1.1276E+01	-1.4647E+00	

Table 11 (Continued). TABULATED PRESSURE DATA

P640	BLADE #4 x/C = 0.1500	UPPER SURFACE r/R = 0.7300	P641	BLADE #4 x/C = 0.2500	UPPER SURFACE r/R = 0.7300
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.2349E+01	-9.3686E-01	0.000	1.2451E+01	-8.8667E-01
5.625	1.2148E+01	-9.3953E-01	5.625	1.2397E+01	-8.2847E-01
11.250	1.2023E+01	-9.0819E-01	11.250	1.2333E+01	-7.8192E-01
16.875	1.1989E+01	-8.4576E-01	16.875	1.2246E+01	-7.4984E-01
22.500	1.1851E+01	-8.2813E-01	22.500	1.2128E+01	-7.3250E-01
28.125	1.1637E+01	-8.3723E-01	28.125	1.1970E+01	-7.3081E-01
33.750	1.1351E+01	-8.6789E-01	33.750	1.1775E+01	-7.4111E-01
39.375	1.0999E+01	-9.1498E-01	39.375	1.1513E+01	-7.7059E-01
45.000	1.0604E+01	-9.7087E-01	45.000	1.1259E+01	-7.9689E-01
50.625	1.0212E+01	-1.0243E+00	50.625	1.1045E+01	-8.1314E-01
56.250	9.7041E+00	-1.1052E+00	56.250	1.0858E+01	-8.2485E-01
61.875	9.1949E+00	-1.1857E+00	61.875	1.0716E+01	-8.2918E-01
67.500	8.9716E+00	-1.2023E+00	67.500	1.0760E+01	-7.9533E-01
73.125	9.1881E+00	-1.1271E+00	73.125	1.0811E+01	-7.6613E-01
78.750	9.6361E+00	-1.0109E+00	78.750	1.0836E+01	-7.4824E-01
84.375	9.8436E+00	-9.5610E-01	84.375	1.0878E+01	-7.3182E-01
90.000	1.0039E+01	-9.1085E-01	90.000	1.0989E+01	-7.0557E-01
95.625	1.0370E+01	-8.4193E-01	95.625	1.1081E+01	-6.8782E-01
101.250	1.0358E+01	-8.5283E-01	101.250	1.1064E+01	-6.9820E-01
106.875	1.0380E+01	-8.6196E-01	106.875	1.1173E+01	-6.8540E-01
112.500	1.0623E+01	-8.2649E-01	112.500	1.1259E+01	-6.8161E-01
118.125	1.0860E+01	-7.9547E-01	118.125	1.1315E+01	-6.8884E-01
123.750	1.1236E+01	-7.3304E-01	123.750	1.1563E+01	-6.5367E-01
129.375	1.1532E+01	-6.8967E-01	129.375	1.1825E+01	-6.1547E-01
135.000	1.1689E+01	-6.8245E-01	135.000	1.1928E+01	-6.1883E-01
140.625	1.1726E+01	-7.1064E-01	140.625	1.1976E+01	-6.4026E-01
146.250	1.1776E+01	-7.4078E-01	146.250	1.2007E+01	-6.7180E-01
151.875	1.1785E+01	-7.9010E-01	151.875	1.2034E+01	-7.1023E-01
157.500	1.1772E+01	-8.5538E-01	157.500	1.2045E+01	-7.6126E-01
163.125	1.1750E+01	-9.3503E-01	163.125	1.2035E+01	-8.2842E-01
168.750	1.1746E+01	-1.0206E+00	168.750	1.2090E+01	-8.8073E-01
174.375	1.1733E+01	-1.1248E+00	174.375	1.2118E+01	-9.5289E-01
180.000	1.1701E+01	-1.2553E+00	180.000	1.2047E+01	-1.0854E+00
185.625	1.1655E+01	-1.4160E+00	185.625	1.2083E+01	-1.1826E+00
191.250	1.1878E+01	-1.4401E+00	191.250	1.2106E+01	-1.3022E+00
196.875	1.1986E+01	-1.5351E+00	196.875	1.2165E+01	-1.4139E+00
202.500	1.1899E+01	-1.7857E+00	202.500	1.2212E+01	-1.5484E+00
208.125	1.1968E+01	-1.9452E+00	208.125	1.2290E+01	-1.6710E+00
213.750	1.2027E+01	-2.1283E+00	213.750	1.2371E+01	-1.7993E+00
219.375	1.2121E+01	-2.2867E+00	219.375	1.2463E+01	-1.9200E+00
225.000	1.2242E+01	-2.4130E+00	225.000	1.2565E+01	-2.0260E+00
230.625	1.2374E+01	-2.5106E+00	230.625	1.2651E+01	-2.1413E+00
236.250	1.2507E+01	-2.5808E+00	236.250	1.2752E+01	-2.2179E+00
241.875	1.2635E+01	-2.6188E+00	241.875	1.2835E+01	-2.2948E+00
247.500	1.2784E+01	-2.5726E+00	247.500	1.2918E+01	-2.3377E+00
253.125	1.2899E+01	-2.5308E+00	253.125	1.2984E+01	-2.3706E+00
258.750	1.3005E+01	-2.4465E+00	258.750	1.3028E+01	-2.4010E+00
264.375	1.3072E+01	-2.3841E+00	264.375	1.3037E+01	-2.4545E+00
270.000	1.3070E+01	-2.4116E+00	270.000	1.2894E+01	-2.7707E+00
275.625	1.3134E+01	-2.2588E+00	275.625	1.2891E+01	-2.7500E+00
281.250	1.3284E+01	-1.8997E+00	281.250	1.2983E+01	-2.4894E+00
286.875	1.3205E+01	-1.9596E+00	286.875	1.2925E+01	-2.4825E+00
292.500	1.3236E+01	-1.7827E+00	292.500	1.3010E+01	-2.1776E+00
298.125	1.3321E+01	-1.5101E+00	298.125	1.3020E+01	-1.9964E+00
303.750	1.3323E+01	-1.3756E+00	303.750	1.3187E+01	-1.5766E+00
309.375	1.3353E+01	-1.2042E+00	309.375	1.3345E+01	-1.2144E+00
315.000	1.3246E+01	-1.2097E+00	315.000	1.3235E+01	-1.2225E+00
320.625	1.3202E+01	-1.1280E+00	320.625	1.3189E+01	-1.1420E+00
326.250	1.3050E+01	-1.1509E+00	326.250	1.3059E+01	-1.1422E+00
331.875	1.2943E+01	-1.1155E+00	331.875	1.2964E+01	-1.0982E+00
337.500	1.2764E+01	-1.1301E+00	337.500	1.2840E+01	-1.0723E+00
343.125	1.2613E+01	-1.1111E+00	343.125	1.2707E+01	-1.0472E+00
348.750	1.2300E+01	-1.1845E+00	348.750	1.2532E+01	-1.0442E+00
354.375	1.2228E+01	-1.1036E+00	354.375	1.2454E+01	-9.8053E-01
360.000	1.2349E+01	-9.3696E-01	360.000	1.2451E+01	-8.8677E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P642 x/C = 0.4000	BLADE #4	UPPER SURFACE r/R = 0.7300	P644 x/C = 0.7000	BLADE #4	UPPER SURFACE r/R = 0.7300
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.2934E+01	-6.4905E-01	0.000	1.3531E+01	-3.5567E-01
5.625	1.2869E+01	-6.1786E-01	5.625	1.3512E+01	-3.3116E-01
11.250	1.2800E+01	-5.9175E-01	11.250	1.3478E+01	-3.1589E-01
16.875	1.2689E+01	-5.8430E-01	16.875	1.3439E+01	-3.0434E-01
22.500	1.2572E+01	-5.7978E-01	22.500	1.3405E+01	-2.9266E-01
28.125	1.2394E+01	-5.9528E-01	28.125	1.3349E+01	-2.8954E-01
33.750	1.2210E+01	-6.1112E-01	33.750	1.3305E+01	-2.8377E-01
39.375	1.1997E+01	-6.3458E-01	39.375	1.3264E+01	-2.7836E-01
45.000	1.1795E+01	-6.5420E-01	45.000	1.3212E+01	-2.7711E-01
50.625	1.1587E+01	-6.7577E-01	50.625	1.3175E+01	-2.7338E-01
56.250	1.1404E+01	-6.9226E-01	56.250	1.3138E+01	-2.7103E-01
61.875	1.1243E+01	-7.0576E-01	61.875	1.3129E+01	-2.6368E-01
67.500	1.1236E+01	-6.8682E-01	67.500	1.3161E+01	-2.4886E-01
73.125	1.1189E+01	-6.8205E-01	73.125	1.3186E+01	-2.3761E-01
78.750	1.1259E+01	-6.5551E-01	78.750	1.3206E+01	-2.2946E-01
84.375	1.1307E+01	-6.3874E-01	84.375	1.3208E+01	-2.2668E-01
90.000	1.1353E+01	-6.2687E-01	90.000	1.3239E+01	-2.1930E-01
95.625	1.1453E+01	-6.0711E-01	95.625	1.3237E+01	-2.2051E-01
101.250	1.1467E+01	-6.1007E-01	101.250	1.3254E+01	-2.1900E-01
106.875	1.1568E+01	-5.9757E-01	106.875	1.3297E+01	-2.1298E-01
112.500	1.1633E+01	-5.9661E-01	112.500	1.3317E+01	-2.1321E-01
118.125	1.1757E+01	-5.8530E-01	118.125	1.3358E+01	-2.0991E-01
123.750	1.1899E+01	-5.7203E-01	123.750	1.3363E+01	-2.1650E-01
129.375	1.2020E+01	-5.6603E-01	129.375	1.3385E+01	-2.2019E-01
135.000	1.2063E+01	-5.8294E-01	135.000	1.3432E+01	-2.1859E-01
140.625	1.2114E+01	-6.0169E-01	140.625	1.3438E+01	-2.2948E-01
146.250	1.2178E+01	-6.2066E-01	146.250	1.3432E+01	-2.4571E-01
151.875	1.2240E+01	-6.4437E-01	151.875	1.3412E+01	-2.6943E-01
157.500	1.2297E+01	-6.7439E-01	157.500	1.3367E+01	-3.0576E-01
163.125	1.2393E+01	-6.9481E-01	163.125	1.3390E+01	-3.2270E-01
168.750	1.2420E+01	-7.4661E-01	168.750	1.3388E+01	-3.5231E-01
174.375	1.2497E+01	-7.8389E-01	174.375	1.3412E+01	-3.7574E-01
180.000	1.2537E+01	-8.4438E-01	180.000	1.3416E+01	-4.1227E-01
185.625	1.2608E+01	-8.9677E-01	185.625	1.3444E+01	-4.4104E-01
191.250	1.2648E+01	-9.7338E-01	191.250	1.3437E+01	-4.9526E-01
196.875	1.2721E+01	-1.0377E+00	196.875	1.3473E+01	-5.2852E-01
202.500	1.2783E+01	-1.1156E+00	202.500	1.3491E+01	-5.7846E-01
208.125	1.2866E+01	-1.1808E+00	208.125	1.3519E+01	-6.2508E-01
213.750	1.2942E+01	-1.2536E+00	213.750	1.3554E+01	-6.6917E-01
219.375	1.3022E+01	-1.3212E+00	219.375	1.3583E+01	-7.1937E-01
225.000	1.3120E+01	-1.3603E+00	225.000	1.3629E+01	-7.4959E-01
230.625	1.3191E+01	-1.4200E+00	230.625	1.3635E+01	-8.2695E-01
236.250	1.3290E+01	-1.4245E+00	236.250	1.3687E+01	-8.3774E-01
241.875	1.3356E+01	-1.4530E+00	241.875	1.3683E+01	-9.2420E-01
247.500	1.3432E+01	-1.4389E+00	247.500	1.3697E+01	-9.7430E-01
253.125	1.3484E+01	-1.4377E+00	253.125	1.3686E+01	-1.0598E+00
258.750	1.3514E+01	-1.4498E+00	258.750	1.3680E+01	-1.1242E+00
264.375	1.3526E+01	-1.4680E+00	264.375	1.3660E+01	-1.1991E+00
270.000	1.3494E+01	-1.5475E+00	270.000	1.3631E+01	-1.2699E+00
275.625	1.3374E+01	-1.7748E+00	275.625	1.3616E+01	-1.2870E+00
281.250	1.3271E+01	-1.9244E+00	281.250	1.3582E+01	-1.3160E+00
286.875	1.3296E+01	-1.7888E+00	286.875	1.3547E+01	-1.3203E+00
292.500	1.3380E+01	-1.5308E+00	292.500	1.3525E+01	-1.2764E+00
298.125	1.3456E+01	-1.2911E+00	298.125	1.3595E+01	-1.0657E+00
303.750	1.3539E+01	-1.0563E+00	303.750	1.3633E+01	-9.1751E-01
309.375	1.3630E+01	-8.3412E-01	309.375	1.3611E+01	-8.5976E-01
315.000	1.3625E+01	-7.5531E-01	315.000	1.3614E+01	-7.6785E-01
320.625	1.3560E+01	-7.4400E-01	320.625	1.3667E+01	-6.2960E-01
326.250	1.3449E+01	-7.6953E-01	326.250	1.3673E+01	-5.5515E-01
331.875	1.3369E+01	-7.5331E-01	331.875	1.3655E+01	-5.0958E-01
337.500	1.3272E+01	-7.4471E-01	337.500	1.3635E+01	-4.6967E-01
343.125	1.3165E+01	-7.3705E-01	343.125	1.3590E+01	-4.4955E-01
348.750	1.3038E+01	-7.3714E-01	348.750	1.3557E+01	-4.2232E-01
354.375	1.2970E+01	-6.9941E-01	354.375	1.3545E+01	-3.8659E-01
360.000	1.2934E+01	-6.4912E-01	360.000	1.3531E+01	-3.5571E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P645	BLADE #4	UPPER SURFACE	P646	BLADE #4	UPPER SURFACE
x/C = 0.8000		r/R = 0.7300	x/C = 1.0000		r/R = 0.7300
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.3830E+01	-2.0852E-01	0.000	1.4255E+01	6.6881E-04
5.625	1.3830E+01	-1.8918E-01	5.625	1.4303E+01	2.1672E-02
11.250	1.3844E+01	-1.6684E-01	11.250	1.4321E+01	2.7242E-02
16.875	1.3828E+01	-1.5913E-01	16.875	1.4300E+01	1.7153E-02
22.500	1.3846E+01	-1.4069E-01	22.500	1.4319E+01	2.2383E-02
28.125	1.3838E+01	-1.3323E-01	28.125	1.4383E+01	4.1356E-02
33.750	1.3855E+01	-1.1921E-01	33.750	1.4444E+01	5.6703E-02
39.375	1.3848E+01	-1.1419E-01	39.375	1.4462E+01	5.8495E-02
45.000	1.3853E+01	-1.0659E-01	45.000	1.4502E+01	6.5897E-02
50.625	1.3861E+01	-9.9545E-02	50.625	1.4535E+01	7.1135E-02
56.250	1.3859E+01	-9.6004E-02	56.250	1.4559E+01	7.3991E-02
61.875	1.3876E+01	-8.8639E-02	61.875	1.4594E+01	7.9652E-02
67.500	1.3922E+01	-7.5627E-02	67.500	1.4618E+01	8.2789E-02
73.125	1.3946E+01	-6.8445E-02	73.125	1.4633E+01	8.4297E-02
78.750	1.3969E+01	-6.2510E-02	78.750	1.4646E+01	8.5843E-02
84.375	1.3948E+01	-6.6346E-02	84.375	1.4617E+01	7.8624E-02
90.000	1.4001E+01	-5.4640E-02	90.000	1.4648E+01	8.5071E-02
95.625	1.3993E+01	-5.6534E-02	95.625	1.4642E+01	8.4135E-02
101.250	1.3993E+01	-5.7052E-02	101.250	1.4648E+01	8.6175E-02
106.875	1.4041E+01	-4.7369E-02	106.875	1.4675E+01	9.3582E-02
112.500	1.4053E+01	-4.5777E-02	112.500	1.4677E+01	9.6178E-02
118.125	1.4072E+01	-4.2746E-02	118.125	1.4672E+01	9.7880E-02
123.750	1.4064E+01	-4.6250E-02	123.750	1.4653E+01	9.6755E-02
129.375	1.4068E+01	-4.7241E-02	129.375	1.4627E+01	9.4461E-02
135.000	1.4076E+01	-4.7282E-02	135.000	1.4604E+01	9.2942E-02
140.625	1.4053E+01	-5.6575E-02	140.625	1.4581E+01	9.1950E-02
146.250	1.4028E+01	-6.7525E-02	146.250	1.4557E+01	9.0651E-02
151.875	1.3992E+01	-8.3797E-02	151.875	1.4530E+01	8.8296E-02
157.500	1.3924E+01	-1.1382E-01	157.500	1.4485E+01	7.9647E-02
163.125	1.3897E+01	-1.3340E-01	163.125	1.4471E+01	8.0818E-02
168.750	1.3875E+01	-1.5428E-01	168.750	1.4466E+01	8.6408E-02
174.375	1.3850E+01	-1.8042E-01	174.375	1.4443E+01	8.4058E-02
180.000	1.3832E+01	-2.0766E-01	180.000	1.4420E+01	8.1776E-02
185.625	1.3825E+01	-2.3363E-01	185.625	1.4409E+01	8.4346E-02
191.250	1.3800E+01	-2.7523E-01	191.250	1.4371E+01	7.0974E-02
196.875	1.3804E+01	-3.0446E-01	196.875	1.4349E+01	6.4249E-02
202.500	1.3796E+01	-3.4761E-01	202.500	1.4316E+01	4.6953E-02
208.125	1.3801E+01	-3.8516E-01	208.125	1.4285E+01	2.6461E-02
213.750	1.3806E+01	-4.2839E-01	213.750	1.4260E+01	5.6760E-03
219.375	1.3807E+01	-4.7977E-01	219.375	1.4224E+01	-3.2268E-02
225.000	1.3823E+01	-5.1769E-01	225.000	1.4211E+01	-5.1917E-02
230.625	1.3811E+01	-5.9115E-01	230.625	1.4168E+01	-1.1446E-01
236.250	1.3817E+01	-6.4579E-01	236.250	1.4169E+01	-1.2610E-01
241.875	1.3800E+01	-7.3370E-01	241.875	1.4130E+01	-2.0101E-01
247.500	1.3792E+01	-8.0818E-01	247.500	1.4114E+01	-2.4504E-01
253.125	1.3783E+01	-8.7892E-01	253.125	1.4093E+01	-3.0150E-01
258.750	1.3770E+01	-9.4745E-01	258.750	1.4078E+01	-3.4404E-01
264.375	1.3756E+01	-1.0049E+00	264.375	1.4067E+01	-3.7743E-01
270.000	1.3738E+01	-1.0512E+00	270.000	1.4074E+01	-3.6724E-01
275.625	1.3736E+01	-1.0439E+00	275.625	1.4075E+01	-3.6016E-01
281.250	1.3720E+01	-1.0453E+00	281.250	1.4089E+01	-3.2419E-01
286.875	1.3686E+01	-1.0614E+00	286.875	1.4073E+01	-3.3794E-01
292.500	1.3649E+01	-1.0583E+00	292.500	1.4027E+01	-3.9731E-01
298.125	1.3708E+01	-8.8272E-01	298.125	1.4026E+01	-3.6827E-01
303.750	1.3749E+01	-7.4633E-01	303.750	1.4040E+01	-3.1694E-01
309.375	1.3772E+01	-6.4456E-01	309.375	1.4082E+01	-2.2953E-01
315.000	1.3762E+01	-5.9053E-01	315.000	1.4093E+01	-1.9358E-01
320.625	1.3752E+01	-5.3797E-01	320.625	1.4120E+01	-1.4434E-01
326.250	1.3778E+01	-4.5519E-01	326.250	1.4107E+01	-1.4049E-01
331.875	1.3805E+01	-3.8218E-01	331.875	1.4138E+01	-9.8453E-02
337.500	1.3815E+01	-3.3327E-01	337.500	1.4162E+01	-6.9827E-02
343.125	1.3808E+01	-3.0200E-01	343.125	1.4200E+01	-3.6766E-02
348.750	1.3802E+01	-2.7417E-01	348.750	1.4220E+01	-2.0840E-02
354.375	1.3815E+01	-2.3943E-01	354.375	1.4237E+01	-9.3878E-03
360.000	1.3830E+01	-2.0854E-01	360.000	1.4255E+01	6.6888E-04

Table 11 (Continued). TABULATED PRESSURE DATA

P647	BLADE #4	UPPER SURFACE	P648	BLADE #4	UPPER SURFACE
x/C = 0.0010		r/R = 0.8050	x/C = 0.0250		r/R = 0.8050
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.1791E+01	-9.9632E-01	0.000	1.0043E+01	-1.7029E+00
5.625	1.2946E+01	-4.8408E-01	5.625	1.0593E+01	-1.3552E+00
11.250	1.3715E+01	-1.8342E-01	11.250	1.0984E+01	-1.1130E+00
16.875	1.4674E+01	1.3221E-01	16.875	1.1491E+01	-8.6922E-01
22.500	1.5267E+01	2.9595E-01	22.500	1.1717E+01	-7.4136E-01
28.125	1.5778E+01	4.1587E-01	28.125	1.1883E+01	-6.4706E-01
33.750	1.6047E+01	4.5955E-01	33.750	1.1861E+01	-6.1330E-01
39.375	1.6333E+01	5.0326E-01	39.375	1.1809E+01	-5.9187E-01
45.000	1.6591E+01	5.3740E-01	45.000	1.1789E+01	-5.6685E-01
50.625	1.6851E+01	5.7062E-01	50.625	1.1819E+01	-5.3522E-01
56.250	1.7004E+01	5.8112E-01	56.250	1.1812E+01	-5.1592E-01
61.875	1.7218E+01	6.0568E-01	61.875	1.1871E+01	-4.8700E-01
67.500	1.7544E+01	6.5414E-01	67.500	1.2163E+01	-4.1583E-01
73.125	1.7343E+01	6.0124E-01	73.125	1.2264E+01	-3.8745E-01
78.750	1.7348E+01	5.9325E-01	78.750	1.2219E+01	-3.9014E-01
84.375	1.7784E+01	6.7057E-01	84.375	1.2577E+01	-3.1867E-01
90.000	1.7997E+01	7.0892E-01	90.000	1.2885E+01	-2.5936E-01
95.625	1.8448E+01	7.9671E-01	95.625	1.3117E+01	-2.1601E-01
101.250	1.8683E+01	8.4914E-01	101.250	1.3462E+01	-1.5195E-01
106.875	1.8751E+01	8.7539E-01	106.875	1.3568E+01	-1.3350E-01
112.500	1.8884E+01	9.2064E-01	112.500	1.4130E+01	-2.4571E-02
118.125	1.9224E+01	1.0157E+00	118.125	1.5075E+01	1.6767E-01
123.750	1.9162E+01	1.0369E+00	123.750	1.5192E+01	1.9823E-01
129.375	1.9000E+01	1.0430E+00	129.375	1.5148E+01	1.9640E-01
135.000	1.8787E+01	1.0423E+00	135.000	1.5110E+01	1.9690E-01
140.625	1.8552E+01	1.0402E+00	140.625	1.4952E+01	1.6896E-01
146.250	1.8247E+01	1.0232E+00	146.250	1.4689E+01	1.1136E-01
151.875	1.7924E+01	1.0014E+00	151.875	1.4362E+01	2.9476E-02
157.500	1.7527E+01	9.5617E-01	157.500	1.3988E+01	-7.7723E-02
163.125	1.7082E+01	8.8957E-01	163.125	1.3563E+01	-2.1724E-01
168.750	1.6521E+01	7.7168E-01	168.750	1.3092E+01	-3.9554E-01
174.375	1.5948E+01	6.2687E-01	174.375	1.2632E+01	-6.0062E-01
180.000	1.5348E+01	4.4250E-01	180.000	1.2190E+01	-8.3478E-01
185.625	1.4631E+01	1.6726E-01	185.625	1.1738E+01	-1.1160E+00
191.250	1.3852E+01	-1.9620E-01	191.250	1.1296E+01	-1.4447E+00
196.875	1.3059E+01	-6.4431E-01	196.875	1.0869E+01	-1.8251E+00
202.500	1.2177E+01	1.2390E+00	202.500	1.0424E+01	-2.2842E+00
208.125	1.1254E+01	-1.9811E+00	208.125	9.9953E+00	-2.8123E+00
213.750	1.0386E+01	-2.8277E+00	213.750	9.6360E+00	-3.3763E+00
219.375	9.6369E+00	-3.7316E+00	219.375	9.3197E+00	-3.9879E+00
225.000	9.0566E+00	-4.6291E+00	225.000	9.0876E+00	-4.6015E+00
230.625	8.6963E+00	-5.4288E+00	230.625	8.9341E+00	-5.1965E+00
236.250	8.4977E+00	-6.1254E+00	236.250	8.9673E+00	-5.6258E+00
241.875	8.3919E+00	-6.7371E+00	241.875	9.4513E+00	-5.5197E+00
247.500	8.3801E+00	-7.2137E+00	247.500	9.8997E+00	-5.3476E+00
253.125	8.5070E+00	-7.4486E+00	253.125	1.0198E+01	-5.2577E+00
258.750	8.7080E+00	-7.4798E+00	258.750	1.0411E+01	-5.1833E+00
264.375	8.8999E+00	-7.3995E+00	264.375	1.0562E+01	-5.1026E+00
270.000	9.0329E+00	-7.2754E+00	270.000	1.0662E+01	-5.0050E+00
275.625	9.0685E+00	-7.1668E+00	275.625	1.0729E+01	-4.8717E+00
281.250	9.0136E+00	-7.0680E+00	281.250	1.0741E+01	-4.7382E+00
286.875	8.8873E+00	-6.9563E+00	286.875	1.0731E+01	-4.5660E+00
292.500	9.1418E+00	-6.2790E+00	292.500	1.0906E+01	-4.1127E+00
298.125	1.0063E+01	-4.8173E+00	298.125	1.1428E+01	-3.2487E+00
303.750	1.0943E+01	-3.5241E+00	303.750	1.1595E+01	-2.8304E+00
309.375	1.1208E+01	-2.9758E+00	309.375	1.1416E+01	-2.7724E+00
315.000	1.1332E+01	-2.6033E+00	315.000	1.1377E+01	-2.5625E+00
320.625	1.1325E+01	-2.3679E+00	320.625	1.1199E+01	-2.4694E+00
326.250	1.1295E+01	-2.1634E+00	326.250	1.1017E+01	-2.3669E+00
331.875	1.1191E+01	-2.0228E+00	331.875	1.0765E+01	-2.3044E+00
337.500	1.1200E+01	-1.8218E+00	337.500	1.0556E+01	-2.2059E+00
343.125	1.1121E+01	-1.6892E+00	343.125	1.0268E+01	-2.1491E+00
348.750	1.1138E+01	-1.5219E+00	348.750	1.0024E+01	-2.0659E+00
354.375	1.1030E+01	-1.4303E+00	354.375	9.7274E+00	-2.0084E+00
360.000	1.1791E+01	-9.9641E-01	360.000	1.0043E+01	-1.7030E+00

Table 11 (Continued). TABULATED PRESSURE DATA

P649 x/C = 0.0700	BLADE #4 AZIMUTH	UPPER SURFACE r/R = 0.8050 PSIA	CP	P650 x/C = 0.1500	BLADE #4 AZIMUTH	UPPER SURFACE r/R = 0.8050 PSIA	CP
0.000	1.0388E+01	-1.5636E+00	0.000	1.1597E+01	-1.0745E+00		
5.625	1.0550E+01	-1.3714E+00	5.625	1.1634E+01	-9.6975E-01		
11.250	1.0597E+01	-1.2448E+00	11.250	1.1358E+01	-9.8589E-01		
16.875	1.0684E+01	-1.1229E+00	16.875	1.1307E+01	-9.2707E-01		
22.500	1.0569E+01	-1.0767E+00	22.500	1.1208E+01	-8.9006E-01		
28.125	1.0392E+01	-1.0538E+00	28.125	1.1016E+01	-8.8354E-01		
33.750	1.0034E+01	-1.0814E+00	33.750	1.0696E+01	-9.1192E-01		
39.375	9.5921E+00	-1.1284E+00	39.375	1.0297E+01	-9.5768E-01		
45.000	9.1412E+00	-1.1758E+00	45.000	9.8239E+00	-1.0188E+00		
50.625	8.7652E+00	-1.2063E+00	50.625	9.1276E+00	-1.1266E+00		
56.250	8.5249E+00	-1.2105E+00	56.250	8.2676E+00	-1.2649E+00		
61.875	8.4686E+00	-1.1823E+00	61.875	7.7206E+00	-1.3351E+00		
67.500	8.6026E+00	-1.1237E+00	67.500	7.3536E+00	-1.3721E+00		
73.125	8.8391E+00	-1.0541E+00	73.125	7.3319E+00	-1.3474E+00		
78.750	8.8473E+00	-1.0366E+00	78.750	7.5159E+00	-1.2918E+00		
84.375	9.1076E+00	-9.7771E-01	84.375	7.7392E+00	-1.2377E+00		
90.000	9.4030E+00	-9.1879E-01	90.000	8.2807E+00	-1.1314E+00		
95.625	9.4956E+00	-9.0401E-01	95.625	8.7266E+00	-1.0501E+00		
101.250	9.7910E+00	-8.5565E-01	101.250	8.8961E+00	-1.0272E+00		
106.875	9.9471E+00	-8.3837E-01	106.875	9.7183E+00	-8.8292E-01		
112.500	1.0725E+01	-7.0173E-01	112.500	1.0584E+01	-7.2967E-01		
118.125	1.1752E+01	-5.1132E-01	118.125	1.1125E+01	-6.3941E-01		
123.750	1.2013E+01	-4.7345E-01	123.750	1.1378E+01	-6.0773E-01		
129.375	1.2111E+01	-4.7090E-01	129.375	1.1511E+01	-6.0286E-01		
135.000	1.2195E+01	-4.7341E-01	135.000	1.1677E+01	-5.9254E-01		
140.625	1.2174E+01	-5.0335E-01	140.625	1.1720E+01	-6.1326E-01		
146.250	1.2086E+01	-5.5553E-01	146.250	1.1727E+01	-6.4750E-01		
151.875	1.1954E+01	-6.2749E-01	151.875	1.1721E+01	-6.9117E-01		
157.500	1.1788E+01	-7.2059E-01	157.500	1.1669E+01	-7.5528E-01		
163.125	1.1596E+01	-8.3608E-01	163.125	1.1638E+01	-8.2294E-01		
168.750	1.1388E+01	-9.7545E-01	168.750	1.1578E+01	-9.1086E-01		
174.375	1.1217E+01	-1.1242E+00	174.375	1.1569E+01	-9.9391E-01		
180.000	1.1063E+01	-1.2904E+00	180.000	1.1534E+01	-1.1000E+00		
185.625	1.0932E+01	-1.4735E+00	185.625	1.1518E+01	-1.2137E+00		
191.250	1.0800E+01	-1.6865E+00	191.250	1.1403E+01	-1.3923E+00		
196.875	1.0704E+01	-1.9140E+00	196.875	1.1514E+01	-1.4772E+00		
202.500	1.0576E+01	-2.1932E+00	202.500	1.1696E+01	-1.5258E+00		
208.125	1.0479E+01	-2.4929E+00	208.125	1.1588E+01	-1.7607E+00		
213.750	1.0348E+01	-2.8557E+00	213.750	1.1635E+01	-1.9147E+00		
219.375	1.0577E+01	-2.9717E+00	219.375	1.1659E+01	-2.0974E+00		
225.000	1.0778E+01	-3.0959E+00	225.000	1.1769E+01	-2.2131E+00		
230.625	1.0768E+01	-3.4050E+00	230.625	1.1851E+01	-2.3473E+00		
236.250	1.0963E+01	-3.5025E+00	236.250	1.1999E+01	-2.3995E+00		
241.875	1.1097E+01	-3.6282E+00	241.875	1.2092E+01	-2.4854E+00		
247.500	1.1275E+01	-3.6587E+00	247.500	1.2210E+01	-2.5107E+00		
253.125	1.1423E+01	-3.6694E+00	253.125	1.2316E+01	-2.5121E+00		
258.750	1.1577E+01	-3.6106E+00	258.750	1.2429E+01	-2.4620E+00		
264.375	1.1693E+01	-3.5392E+00	264.375	1.2490E+01	-2.4380E+00		
270.000	1.1784E+01	-3.4421E+00	270.000	1.2550E+01	-2.3748E+00		
275.625	1.1816E+01	-3.3701E+00	275.625	1.2561E+01	-2.3402E+00		
281.250	1.1838E+01	-3.2590E+00	281.250	1.2591E+01	-2.2431E+00		
286.875	1.1831E+01	-3.1404E+00	286.875	1.2545E+01	-2.2151E+00		
292.500	1.1981E+01	-2.7922E+00	292.500	1.2684E+01	-1.9286E+00		
298.125	1.2491E+01	-2.0264E+00	298.125	1.2911E+01	-1.5436E+00		
303.750	1.2628E+01	-1.7301E+00	303.750	1.3090E+01	-1.2385E+00		
309.375	1.2312E+01	-1.8976E+00	309.375	1.2915E+01	-1.3077E+00		
315.000	1.2001E+01	-2.0073E+00	315.000	1.2627E+01	-1.4495E+00		
320.625	1.1683E+01	-2.0784E+00	320.625	1.2505E+01	-1.4135E+00		
326.250	1.1539E+01	-1.9851E+00	326.250	1.2357E+01	-1.3869E+00		
331.875	1.1303E+01	-1.9489E+00	331.875	1.2225E+01	-1.3402E+00		
337.500	1.1115E+01	-1.8725E+00	337.500	1.2059E+01	-1.3090E+00		
343.125	1.0841E+01	-1.8403E+00	343.125	1.1877E+01	-1.2819E+00		
348.750	1.0587E+01	-1.7909E+00	348.750	1.1712E+01	-1.2414E+00		
354.375	1.0301E+01	-1.7541E+00	354.375	1.1506E+01	-1.2195E+00		
360.000	1.0388E+01	-1.5637E+00	360.000	1.1597E+01	-1.0746E+00		

Table 11 (Continued). TABULATED PRESSURE DATA

P651 x/C = 0.2500	BLADE #4 AZIMUTH	UPPER SURFACE r/R = 0.8050 PSIA CP	P652 x/C = 0.4000	BLADE #4 AZIMUTH	UPPER SURFACE r/R = 0.8050 PSIA CP
0.000	1.2396E+01	-7.5144E-01	0.000	1.2563E+01	-6.8401E-01
5.625	1.2378E+01	-6.9467E-01	5.625	1.2497E+01	-6.5033E-01
11.250	1.2350E+01	-6.4810E-01	11.250	1.2427E+01	-6.2199E-01
16.875	1.2320E+01	-6.0841E-01	16.875	1.2319E+01	-6.0880E-01
22.500	1.2222E+01	-5.9361E-01	22.500	1.2172E+01	-6.0822E-01
28.125	1.2104E+01	-5.8679E-01	28.125	1.2003E+01	-6.1411E-01
33.750	1.1908E+01	-6.0125E-01	33.750	1.1788E+01	-6.3201E-01
39.375	1.1666E+01	-6.2650E-01	39.375	1.1569E+01	-6.4988E-01
45.000	1.1422E+01	-6.5119E-01	45.000	1.1338E+01	-6.7057E-01
50.625	1.1175E+01	-6.7678E-01	50.625	1.1109E+01	-6.9126E-01
56.250	1.1081E+01	-6.7039E-01	56.250	1.0870E+01	-7.1488E-01
61.875	1.1085E+01	-6.4752E-01	61.875	1.0761E+01	-7.1377E-01
67.500	1.0707E+01	-7.0528E-01	67.500	1.0803E+01	-6.8625E-01
73.125	1.0731E+01	-6.8572E-01	73.125	1.0849E+01	-6.6276E-01
78.750	1.1200E+01	-5.8562E-01	78.750	1.0883E+01	-6.4627E-01
84.375	1.1192E+01	-5.8168E-01	84.375	1.0877E+01	-6.4157E-01
90.000	1.1365E+01	-5.4716E-01	90.000	1.1007E+01	-6.1496E-01
95.625	1.1310E+01	-5.5931E-01	95.625	1.1034E+01	-6.1170E-01
101.250	1.1503E+01	-5.2741E-01	101.250	1.1180E+01	-5.8938E-01
106.875	1.1704E+01	-4.9630E-01	106.875	1.1314E+01	-5.7240E-01
112.500	1.1706E+01	-5.0670E-01	112.500	1.1409E+01	-5.6568E-01
118.125	1.1950E+01	-4.7087E-01	118.125	1.1566E+01	-5.4924E-01
123.750	1.2031E+01	-4.6971E-01	123.750	1.1698E+01	-5.3996E-01
129.375	1.2163E+01	-4.5952E-01	129.375	1.1893E+01	-5.1887E-01
135.000	1.2212E+01	-4.6958E-01	135.000	1.1965E+01	-5.2640E-01
140.625	1.2263E+01	-4.8193E-01	140.625	1.2044E+01	-5.3494E-01
146.250	1.2271E+01	-5.0816E-01	146.250	1.2094E+01	-5.5366E-01
151.875	1.2278E+01	-5.3929E-01	151.875	1.2119E+01	-5.8259E-01
157.500	1.2267E+01	-5.8040E-01	157.500	1.2106E+01	-6.2768E-01
163.125	1.2251E+01	-6.3007E-01	163.125	1.2135E+01	-6.6654E-01
168.750	1.2251E+01	-6.8170E-01	168.750	1.2181E+01	-7.0558E-01
174.375	1.2226E+01	-7.5071E-01	174.375	1.2219E+01	-7.5322E-01
180.000	1.2299E+01	-7.9074E-01	180.000	1.2283E+01	-7.9714E-01
185.625	1.2406E+01	-8.2005E-01	185.625	1.2336E+01	-8.5104E-01
191.250	1.2342E+01	-9.3367E-01	191.250	1.2386E+01	-9.1206E-01
196.875	1.2349E+01	-1.0269E+00	196.875	1.2439E+01	-9.7869E-01
202.500	1.2350E+01	-1.1353E+00	202.500	1.2492E+01	-1.0506E+00
208.125	1.2388E+01	-1.2322E+00	208.125	1.2555E+01	-1.1220E+00
213.750	1.2416E+01	-1.3441E+00	213.750	1.2626E+01	-1.1906E+00
219.375	1.2480E+01	-1.4337E+00	219.375	1.2709E+01	-1.2488E+00
225.000	1.2539E+01	-1.5274E+00	225.000	1.2794E+01	-1.3004E+00
230.625	1.2632E+01	-1.5843E+00	230.625	1.2890E+01	-1.3322E+00
236.250	1.2700E+01	-1.6533E+00	236.250	1.2970E+01	-1.3666E+00
241.875	1.2790E+01	-1.6830E+00	241.875	1.3057E+01	-1.3755E+00
247.500	1.2871E+01	-1.6985E+00	247.500	1.3131E+01	-1.3792E+00
253.125	1.2953E+01	-1.6863E+00	253.125	1.3206E+01	-1.3589E+00
258.750	1.3023E+01	-1.6599E+00	258.750	1.3268E+01	-1.3301E+00
264.375	1.3086E+01	-1.6139E+00	264.375	1.3313E+01	-1.3005E+00
270.000	1.3113E+01	-1.5898E+00	270.000	1.3324E+01	-1.2961E+00
275.625	1.3123E+01	-1.5638E+00	275.625	1.3312E+01	-1.3016E+00
281.250	1.3108E+01	-1.5459E+00	281.250	1.3294E+01	-1.2947E+00
286.875	1.3089E+01	-1.5106E+00	286.875	1.3286E+01	-1.2541E+00
292.500	1.3112E+01	-1.4024E+00	292.500	1.3228E+01	-1.2601E+00
298.125	1.3139E+01	-1.2814E+00	298.125	1.3178E+01	-1.2365E+00
303.750	1.3221E+01	-1.0997E+00	303.750	1.3185E+01	-1.1377E+00
309.375	1.3323E+01	-9.0967E-01	309.375	1.3326E+01	-9.0712E-01
315.000	1.3207E+01	-9.3234E-01	315.000	1.3363E+01	-7.9342E-01
320.625	1.3078E+01	-9.5098E-01	320.625	1.3210E+01	-8.4372E-01
326.250	1.2982E+01	-9.3048E-01	326.250	1.3125E+01	-8.2536E-01
331.875	1.2881E+01	-9.0715E-01	331.875	1.3026E+01	-8.1147E-01
337.500	1.2775E+01	-8.8246E-01	337.500	1.2937E+01	-7.8573E-01
343.125	1.2655E+01	-8.6236E-01	343.125	1.2826E+01	-7.6989E-01
348.750	1.2525E+01	-8.4465E-01	348.750	1.2715E+01	-7.5150E-01
354.375	1.2413E+01	-8.1706E-01	354.375	1.2611E+01	-7.2884E-01
360.000	1.2396E+01	-7.5151E-01	360.000	1.2563E+01	-6.8408E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P653 x/C = 0.5500	BLADE #4	UPPER SURFACE r/R = 0.8050	CP	P654 x/C = 0.7000	BLADE #4	UPPER SURFACE r/R = 0.8050	CP
AZIMUTH	PSIA			AZIMUTH	PSIA		
0.000	1.2998E+01	-5.0787E-01		0.000	1.3441E+01	-3.2899E-01	
5.625	1.2953E+01	-4.8147E-01		5.625	1.3426E+01	-3.0648E-01	
11.250	1.2909E+01	-4.5794E-01		11.250	1.3404E+01	-2.8949E-01	
16.875	1.2830E+01	-4.4794E-01		16.875	1.3363E+01	-2.8038E-01	
22.500	1.2729E+01	-4.4573E-01		22.500	1.3313E+01	-2.7511E-01	
28.125	1.2618E+01	-4.4650E-01		28.125	1.3273E+01	-2.6784E-01	
33.750	1.2479E+01	-4.5487E-01		33.750	1.3217E+01	-2.6579E-01	
39.375	1.2352E+01	-4.6045E-01		39.375	1.3172E+01	-2.6204E-01	
45.000	1.2202E+01	-4.7184E-01		45.000	1.3115E+01	-2.6193E-01	
50.625	1.2066E+01	-4.8098E-01		50.625	1.3071E+01	-2.6011E-01	
56.250	1.1923E+01	-4.9245E-01		56.250	1.3018E+01	-2.6116E-01	
61.875	1.1899E+01	-4.8126E-01		61.875	1.3034E+01	-2.4925E-01	
67.500	1.1892E+01	-4.6960E-01		67.500	1.3057E+01	-2.3800E-01	
73.125	1.1942E+01	-4.5000E-01		73.125	1.3085E+01	-2.2759E-01	
78.750	1.1949E+01	-4.4194E-01		78.750	1.3075E+01	-2.2608E-01	
84.375	1.1964E+01	-4.3500E-01		84.375	1.3106E+01	-2.1801E-01	
90.000	1.2031E+01	-4.2108E-01		90.000	1.3131E+01	-2.1278E-01	
95.625	1.2020E+01	-4.2434E-01		95.625	1.3131E+01	-2.1330E-01	
101.250	1.2117E+01	-4.0965E-01		101.250	1.3186E+01	-2.0470E-01	
106.875	1.2131E+01	-4.1331E-01		106.875	1.3180E+01	-2.0911E-01	
112.500	1.2192E+01	-4.1006E-01		112.500	1.3188E+01	-2.1208E-01	
118.125	1.2252E+01	-4.0917E-01		118.125	1.3164E+01	-2.2281E-01	
123.750	1.2320E+01	-4.0872E-01		123.750	1.3161E+01	-2.3094E-01	
129.375	1.2357E+01	-4.1690E-01		129.375	1.3173E+01	-2.3753E-01	
135.000	1.2352E+01	-4.3734E-01		135.000	1.3167E+01	-2.5007E-01	
140.625	1.2425E+01	-4.4277E-01		140.625	1.3172E+01	-2.6186E-01	
146.250	1.2497E+01	-4.5027E-01		146.250	1.3170E+01	-2.7782E-01	
151.875	1.2514E+01	-4.7481E-01		151.875	1.3166E+01	-2.9687E-01	
157.500	1.2560E+01	-4.9494E-01		157.500	1.3174E+01	-3.1567E-01	
163.125	1.2573E+01	-5.2882E-01		163.125	1.3173E+01	-3.3993E-01	
168.750	1.2621E+01	-5.5584E-01		168.750	1.3184E+01	-3.6419E-01	
174.375	1.2660E+01	-5.9029E-01		174.375	1.3198E+01	-3.9088E-01	
180.000	1.2717E+01	-6.2181E-01		180.000	1.3221E+01	-4.1788E-01	
185.625	1.2745E+01	-6.6938E-01		185.625	1.3231E+01	-4.5370E-01	
191.250	1.2793E+01	-7.1339E-01		191.250	1.3253E+01	-4.8892E-01	
196.875	1.2829E+01	-7.6821E-01		196.875	1.3273E+01	-5.2918E-01	
202.500	1.2875E+01	-8.2267E-01		202.500	1.3303E+01	-5.6726E-01	
208.125	1.2922E+01	-8.7994E-01		208.125	1.3331E+01	-6.0973E-01	
213.750	1.2986E+01	-9.2729E-01		213.750	1.3371E+01	-6.4536E-01	
219.375	1.3051E+01	-9.7220E-01		219.375	1.3412E+01	-6.8082E-01	
225.000	1.3118E+01	-1.0114E+00		225.000	1.3455E+01	-7.1192E-01	
230.625	1.3194E+01	-1.0351E+00		230.625	1.3502E+01	-7.3431E-01	
236.250	1.3254E+01	-1.0643E+00		236.250	1.3527E+01	-7.7333E-01	
241.875	1.3323E+01	-1.0703E+00		241.875	1.3555E+01	-8.0360E-01	
247.500	1.3380E+01	-1.0738E+00		247.500	1.3575E+01	-8.3403E-01	
253.125	1.3426E+01	-1.0737E+00		253.125	1.3575E+01	-8.8053E-01	
258.750	1.3451E+01	-1.0828E+00		258.750	1.3574E+01	-9.1741E-01	
264.375	1.3474E+01	-1.0777E+00		264.375	1.3559E+01	-9.6113E-01	
270.000	1.3453E+01	-1.1165E+00		270.000	1.3540E+01	-9.9498E-01	
275.625	1.3432E+01	-1.1358E+00		275.625	1.3519E+01	-1.0152E+00	
281.250	1.3419E+01	-1.1259E+00		281.250	1.3530E+01	-9.7636E-01	
286.875	1.3443E+01	-1.0510E+00		286.875	1.3516E+01	-9.5637E-01	
292.500	1.3366E+01	-1.0913E+00		292.500	1.3461E+01	-9.7372E-01	
298.125	1.3388E+01	-9.9542E-01		298.125	1.3410E+01	-9.7004E-01	
303.750	1.3454E+01	-8.5137E-01		303.750	1.3498E+01	-8.0475E-01	
309.375	1.3363E+01	-8.7084E-01		309.375	1.3531E+01	-7.0657E-01	
315.000	1.3471E+01	-6.9787E-01		315.000	1.3549E+01	-6.2778E-01	
320.625	1.3468E+01	-6.3521E-01		320.625	1.3636E+01	-4.9974E-01	
326.250	1.3369E+01	-6.4705E-01		326.250	1.3620E+01	-4.6402E-01	
331.875	1.3309E+01	-6.2386E-01		331.875	1.3586E+01	-4.4101E-01	
337.500	1.3248E+01	-6.0037E-01		337.500	1.3550E+01	-4.2027E-01	
343.125	1.3171E+01	-5.8397E-01		343.125	1.3512E+01	-4.0005E-01	
348.750	1.3094E+01	-5.6655E-01		348.750	1.3471E+01	-3.8265E-01	
354.375	1.3037E+01	-5.3986E-01		354.375	1.3451E+01	-3.5650E-01	
360.000	1.2998E+01	-5.0792E-01		360.000	1.3441E+01	-3.2903E-01	

Table 11 (Continued). TABULATED PRESSURE DATA

P655 x/C = 0.8000	BLADE #4	UPPER SURFACE r/R = 0.8050	CP	P656 x/C = 1.0000	BLADE #4	UPPER SURFACE r/R = 0.8050	CP
AZIMUTH	PSIA			AZIMUTH	PSIA		
0.000	1.3828E+01	-1.7215E-01		0.000	1.3847E+01	-1.6449E-01	
5.625	1.3847E+01	-1.5054E-01		5.625	1.3870E+01	-1.4224E-01	
11.250	1.3864E+01	-1.3274E-01		11.250	1.3911E+01	-1.1663E-01	
16.875	1.3855E+01	-1.2548E-01		16.875	1.3892E+01	-1.1398E-01	
22.500	1.3858E+01	-1.1562E-01		22.500	1.3864E+01	-1.1401E-01	
28.125	1.3876E+01	-1.0309E-01		28.125	1.3942E+01	-8.5043E-02	
33.750	1.3875E+01	-9.7056E-02		33.750	1.4024E+01	-5.8862E-02	
39.375	1.3875E+01	-9.1879E-02		39.375	1.4053E+01	-4.8659E-02	
45.000	1.3868E+01	-8.8769E-02		45.000	1.4101E+01	-3.5101E-02	
50.625	1.3867E+01	-8.5136E-02		50.625	1.4144E+01	-2.4226E-02	
56.250	1.3861E+01	-8.3076E-02		56.250	1.4185E+01	-1.4640E-02	
61.875	1.3899E+01	-7.2464E-02		61.875	1.4226E+01	-5.7395E-03	
67.500	1.3941E+01	-6.2272E-02		67.500	1.4241E+01	-2.7090E-03	
73.125	1.3967E+01	-5.5990E-02		73.125	1.4243E+01	-2.0576E-03	
78.750	1.3921E+01	-6.3924E-02		78.750	1.4213E+01	-7.8249E-03	
84.375	1.3976E+01	-5.2898E-02		84.375	1.4245E+01	-1.6335E-03	
90.000	1.3995E+01	-4.9022E-02		90.000	1.4252E+01	-3.1736E-04	
95.625	1.3998E+01	-4.8587E-02		95.625	1.4263E+01	1.7351E-03	
101.250	1.4052E+01	-3.8840E-02		101.250	1.4306E+01	9.9473E-03	
106.875	1.4041E+01	-4.1397E-02		106.875	1.4299E+01	8.8205E-03	
112.500	1.4040E+01	-4.2502E-02		112.500	1.4286E+01	6.4124E-03	
118.125	1.4029E+01	-4.6005E-02		118.125	1.4257E+01	5.7665E-04	
123.750	1.4034E+01	-4.6568E-02		123.750	1.4262E+01	1.6671E-03	
129.375	1.4009E+01	-5.3766E-02		129.375	1.4240E+01	-3.0670E-03	
135.000	1.3985E+01	-6.1879E-02		135.000	1.4203E+01	-1.1725E-02	
140.625	1.3950E+01	-7.3630E-02		140.625	1.4185E+01	-1.6775E-02	
146.250	1.3906E+01	-8.9301E-02		146.250	1.4155E+01	-2.5453E-02	
151.875	1.3872E+01	-1.0418E-01		151.875	1.4113E+01	-3.8488E-02	
157.500	1.3839E+01	-1.2132E-01		157.500	1.4080E+01	-5.0796E-02	
163.125	1.3805E+01	-1.4117E-01		163.125	1.4040E+01	-6.7308E-02	
168.750	1.3782E+01	-1.6068E-01		168.750	1.4022E+01	-7.9153E-02	
174.375	1.3763E+01	-1.8183E-01		174.375	1.3989E+01	-9.7994E-02	
180.000	1.3755E+01	-2.0190E-01		180.000	1.3980E+01	-1.1084E-01	
185.625	1.3730E+01	-2.3268E-01		185.625	1.3952E+01	-1.3418E-01	
191.250	1.3720E+01	-2.6098E-01		191.250	1.3928E+01	-1.5927E-01	
196.875	1.3710E+01	-2.9327E-01		196.875	1.3899E+01	-1.9156E-01	
202.500	1.3714E+01	-3.2198E-01		202.500	1.3879E+01	-2.2362E-01	
208.125	1.3710E+01	-3.5954E-01		208.125	1.3848E+01	-2.6846E-01	
213.750	1.3725E+01	-3.8665E-01		213.750	1.3826E+01	-3.1305E-01	
219.375	1.3743E+01	-4.1346E-01		219.375	1.3811E+01	-3.5831E-01	
225.000	1.3761E+01	-4.3906E-01		225.000	1.3786E+01	-4.1643E-01	
230.625	1.3771E+01	-4.7211E-01		230.625	1.3773E+01	-4.6995E-01	
236.250	1.3773E+01	-5.1226E-01		236.250	1.3742E+01	-5.4471E-01	
241.875	1.3770E+01	-5.5667E-01		241.875	1.3713E+01	-6.2199E-01	
247.500	1.3754E+01	-6.1430E-01		247.500	1.3679E+01	-7.0574E-01	
253.125	1.3740E+01	-6.6653E-01		253.125	1.3644E+01	-7.9137E-01	
258.750	1.3725E+01	-7.1415E-01		258.750	1.3608E+01	-8.7186E-01	
264.375	1.3710E+01	-7.5222E-01		264.375	1.3583E+01	-9.2672E-01	
270.000	1.3685E+01	-7.9350E-01		270.000	1.3571E+01	-9.5169E-01	
275.625	1.3677E+01	-7.9796E-01		275.625	1.3562E+01	-9.5626E-01	
281.250	1.3672E+01	-7.8448E-01		281.250	1.3559E+01	-9.3701E-01	
286.875	1.3659E+01	-7.7109E-01		286.875	1.3546E+01	-9.1804E-01	
292.500	1.3599E+01	-8.0447E-01		292.500	1.3544E+01	-8.7187E-01	
298.125	1.3546E+01	-8.1388E-01		298.125	1.3511E+01	-8.5382E-01	
303.750	1.3614E+01	-6.8143E-01		303.750	1.3465E+01	-8.3990E-01	
309.375	1.3667E+01	-5.7305E-01		309.375	1.3486E+01	-7.5081E-01	
315.000	1.3707E+01	-4.8744E-01		315.000	1.3555E+01	-6.2262E-01	
320.625	1.3786E+01	-3.7819E-01		320.625	1.3644E+01	-4.9298E-01	
326.250	1.3833E+01	-3.0793E-01		326.250	1.3694E+01	-4.0957E-01	
331.875	1.3838E+01	-2.7491E-01		331.875	1.3732E+01	-3.4495E-01	
337.500	1.3829E+01	-2.5376E-01		337.500	1.3761E+01	-2.9386E-01	
343.125	1.3814E+01	-2.3733E-01		343.125	1.3788E+01	-2.5150E-01	
348.750	1.3809E+01	-2.1760E-01		348.750	1.3805E+01	-2.1947E-01	
354.375	1.3809E+01	-1.9749E-01		354.375	1.3842E+01	-1.8283E-01	
360.000	1.3828E+01	-1.7216E-01		360.000	1.3847E+01	-1.6451E-01	

Table 11 (Continued). TABULATED PRESSURE DATA

P657 x/C = 0.0600	BLADE #2	LOWER SURFACE r/R = 0.3250	CP	P658 x/C = 0.0600	BLADE #2	LOWER SURFACE r/R = 0.5000	CP
AZIMUTH	PSIA			AZIMUTH	PSIA		
0.000	1.3950E+01	-7.5426E-01		0.000	1.4056E+01	-2.0764E-01	
5.625	1.3833E+01	-8.4427E-01		5.625	1.3975E+01	-2.5388E-01	
11.250	1.3777E+01	-7.9199E-01		11.250	1.3939E+01	-2.5198E-01	
16.875	1.3939E+01	-4.4039E-01		16.875	1.3907E+01	-2.4653E-01	
22.500	1.3965E+01	-3.4701E-01		22.500	1.3908E+01	-2.1969E-01	
28.125	1.3943E+01	-3.2596E-01		28.125	1.3891E+01	-2.0910E-01	
33.750	1.3909E+01	-3.2077E-01		33.750	1.3855E+01	-2.0984E-01	
39.375	1.3874E+01	-3.1689E-01		39.375	1.3797E+01	-2.2154E-01	
45.000	1.3834E+01	-3.1889E-01		45.000	1.3731E+01	-2.3552E-01	
50.625	1.3790E+01	-3.2496E-01		50.625	1.3643E+01	-2.5856E-01	
56.250	1.3720E+01	-3.4817E-01		56.250	1.3518E+01	-2.9494E-01	
61.875	1.3640E+01	-3.7831E-01		61.875	1.3378E+01	-3.3536E-01	
67.500	1.3553E+01	-4.1149E-01		67.500	1.3234E+01	-3.7619E-01	
73.125	1.3505E+01	-4.2402E-01		73.125	1.3066E+01	-4.2542E-01	
78.750	1.3451E+01	-4.4284E-01		78.750	1.2917E+01	-4.6914E-01	
84.375	1.3405E+01	-4.6142E-01		84.375	1.2771E+01	-5.1404E-01	
90.000	1.3397E+01	-4.6329E-01		90.000	1.2759E+01	-5.1620E-01	
95.625	1.3431E+01	-4.4736E-01		95.625	1.2888E+01	-4.7346E-01	
101.250	1.3510E+01	-4.1039E-01		101.250	1.3012E+01	-4.3576E-01	
106.875	1.3633E+01	-3.5144E-01		106.875	1.3127E+01	-4.0383E-01	
112.500	1.3773E+01	-2.8255E-01		112.500	1.3297E+01	-3.5277E-01	
118.125	1.3937E+01	-1.9524E-01		118.125	1.3496E+01	-2.9030E-01	
123.750	1.4111E+01	-9.3177E-02		123.750	1.3627E+01	-2.5126E-01	
129.375	1.4250E+01	-2.5261E-03		129.375	1.3759E+01	-2.0958E-01	
135.000	1.4369E+01	8.7351E-02		135.000	1.3964E+01	-1.3079E-01	
140.625	1.4497E+01	2.0222E-01		140.625	1.4141E+01	-5.4973E-02	
146.250	1.4590E+01	3.1223E-01		146.250	1.4306E+01	2.7106E-02	
151.875	1.4657E+01	4.2269E-01		151.875	1.4460E+01	1.1866E-01	
157.500	1.4695E+01	5.3006E-01		157.500	1.4556E+01	1.9173E-01	
163.125	1.4707E+01	6.3351E-01		163.125	1.4598E+01	2.4365E-01	
168.750	1.4692E+01	7.2702E-01		168.750	1.4687E+01	3.4645E-01	
174.375	1.4654E+01	8.0286E-01		174.375	1.4835E+01	5.2916E-01	
180.000	1.4602E+01	8.6429E-01		180.000	1.4853E+01	6.2774E-01	
185.625	1.4531E+01	8.7272E-01		185.625	1.4807E+01	6.7401E-01	
191.250	1.4456E+01	8.3114E-01		191.250	1.4749E+01	7.0964E-01	
196.875	1.4372E+01	6.5231E-01		196.875	1.4674E+01	7.1522E-01	
202.500	1.4290E+01	2.7825E-01		202.500	1.4569E+01	6.4483E-01	
208.125	1.4230E+01	-2.8174E-01		208.125	1.4474E+01	5.4677E-01	
213.750	1.4181E+01	-1.3607E+00		213.750	1.4387E+01	4.0481E-01	
219.375	1.4149E+01	-3.4349E+00		219.375	1.4283E+01	1.0705E-01	
225.000	1.4113E+01	-9.4790E+00		225.000	1.4209E+01	-2.0925E-01	
230.625	1.4082E+01	-3.1266E+01		230.625	1.4137E+01	-6.7580E-01	
236.250	1.4070E+01	-1.8249E+02		236.250	1.4087E+01	-1.2003E+00	
241.875	1.4049E+01	-8.8650E+03		241.875	1.4045E+01	-1.8363E+00	
247.500	1.4034E+01	-1.7719E+02		247.500	1.4014E+01	-2.5566E+00	
253.125	1.4019E+01	-6.7112E+01		253.125	1.3989E+01	-3.3212E+00	
258.750	1.4013E+01	-4.1165E+01		258.750	1.3961E+01	-4.1704E+00	
264.375	1.4012E+01	-3.1936E+01		264.375	1.3948E+01	-4.7087E+00	
270.000	1.4019E+01	-2.8775E+01		270.000	1.3941E+01	-4.9502E+00	
275.625	1.4028E+01	-2.9904E+01		275.625	1.3932E+01	-4.9673E+00	
281.250	1.4048E+01	-3.5124E+01		281.250	1.3929E+01	-4.6181E+00	
286.875	1.4051E+01	-5.7803E+01		286.875	1.3933E+01	-4.0191E+00	
292.500	1.4056E+01	-1.5947E+02		292.500	1.3937E+01	-3.3729E+00	
298.125	1.4056E+01	-8.3580E+03		298.125	1.3960E+01	-2.5909E+00	
303.750	1.4072E+01	-1.8109E+02		303.750	1.3974E+01	-2.0092E+00	
309.375	1.4078E+01	-3.2107E+01		309.375	1.4028E+01	-1.3046E+00	
315.000	1.4102E+01	-1.0243E+01		315.000	1.4082E+01	-8.0003E-01	
320.625	1.4127E+01	-4.1840E+00		320.625	1.4159E+01	-3.5738E-01	
326.250	1.4086E+01	-3.1287E+00		326.250	1.4151E+01	-3.1293E-01	
331.875	1.4016E+01	-2.7815E+00		331.875	1.4132E+01	-3.0247E-01	
337.500	1.4004E+01	-1.9597E+00		337.500	1.4162E+01	-1.8916E-01	
343.125	1.3986E+01	-1.4902E+00		343.125	1.4236E+01	-3.0842E-02	
348.750	1.4008E+01	-1.0131E+00		348.750	1.4241E+01	-1.8734E-02	
354.375	1.3994E+01	-8.1816E-01		354.375	1.4141E+01	-1.3792E-01	
360.000	1.3950E+01	-7.5444E-01		360.000	1.4056E+01	-2.0768E-01	

Table 11 (Continued). TABULATED PRESSURE DATA

P659 x/C = 0.0300	BLADE #2 AZIMUTH	LOWER SURFACE PSIA	CP	P660 x/C = 0.0300	BLADE #2 AZIMUTH	LOWER SURFACE PSIA	CP
0.000	1.4550E+01	2.2799E-01		0.000	1.4979E+01	3.3760E-01	
5.625	1.4483E+01	1.5629E-01		5.625	1.4745E+01	2.0822E-01	
11.250	1.4403E+01	9.0797E-02		11.250	1.4597E+01	1.3283E-01	
16.875	1.4356E+01	5.5658E-02		16.875	1.4469E+01	7.6435E-02	
22.500	1.4288E+01	1.6915E-02		22.500	1.4344E+01	2.9688E-02	
28.125	1.4249E+01	-2.4621E-03		28.125	1.4238E+01	-4.8764E-03	
33.750	1.4179E+01	-3.1691E-02		33.750	1.4153E+01	-2.9025E-02	
39.375	1.4117E+01	-5.3521E-02		39.375	1.4060E+01	-5.2480E-02	
45.000	1.3976E+01	-1.0177E-01		45.000	1.3812E+01	-1.1299E-01	
50.625	1.3820E+01	-1.5033E-01		50.625	1.3594E+01	-1.6097E-01	
56.250	1.3590E+01	-2.1867E-01		56.250	1.3241E+01	-2.3692E-01	
61.875	1.3345E+01	-2.8710E-01		61.875	1.3082E+01	-2.6452E-01	
67.500	1.3058E+01	-3.6543E-01		67.500	1.2610E+01	-3.6058E-01	
73.125	1.2632E+01	-4.8256E-01		73.125	1.2579E+01	-3.5927E-01	
78.750	1.2245E+01	-5.8653E-01		78.750	1.2479E+01	-3.7472E-01	
84.375	1.2487E+01	-5.1022E-01		84.375	1.1992E+01	-4.7297E-01	
90.000	1.2545E+01	-4.9145E-01		90.000	1.1592E+01	-5.5486E-01	
95.625	1.2339E+01	-5.5275E-01		95.625	1.1410E+01	-5.9476E-01	
101.250	1.2375E+01	-5.4873E-01		101.250	1.1436E+01	-5.9503E-01	
106.875	1.2537E+01	-5.1081E-01		106.875	1.1450E+01	-6.0156E-01	
112.500	1.2977E+01	-3.8992E-01		112.500	1.1334E+01	-6.4060E-01	
118.125	1.3272E+01	-3.1024E-01		118.125	1.1505E+01	-6.2047E-01	
123.750	1.3474E+01	-2.5707E-01		123.750	1.0769E+01	-8.1477E-01	
129.375	1.3674E+01	-2.0057E-01		129.375	9.8069E+00	-1.0837E+00	
135.000	1.3896E+01	-1.3101E-01		135.000	1.0453E+01	-9.7150E-01	
140.625	1.4078E+01	-6.8698E-02		140.625	1.0816E+01	-9.2771E-01	
146.250	1.4264E+01	4.1979E-03		146.250	1.1448E+01	-8.0418E-01	
151.875	1.4484E+01	1.0487E-01		151.875	1.1921E+01	-7.1450E-01	
157.500	1.4692E+01	2.1795E-01		157.500	1.2602E+01	-5.4388E-01	
163.125	1.4839E+01	3.2072E-01		163.125	1.3175E+01	-3.8443E-01	
168.750	1.4967E+01	4.3469E-01		168.750	1.3735E+01	-2.0121E-01	
174.375	1.5068E+01	5.5556E-01		174.375	1.4096E+01	-6.6851E-02	
180.000	1.5130E+01	6.7441E-01		180.000	1.4490E+01	1.1008E-01	
185.625	1.5157E+01	7.9071E-01		185.625	1.4769E+01	2.6485E-01	
191.250	1.5147E+01	8.9700E-01		191.250	1.5070E+01	4.6556E-01	
196.875	1.5082E+01	9.5902E-01		196.875	1.5222E+01	6.1522E-01	
202.500	1.4990E+01	9.9061E-01		202.500	1.5350E+01	7.7733E-01	
208.125	1.4869E+01	9.6713E-01		208.125	1.5350E+01	8.6882E-01	
213.750	1.4740E+01	8.9501E-01		213.750	1.5369E+01	9.8871E-01	
219.375	1.4605E+01	7.6042E-01		219.375	1.5278E+01	1.0135E+00	
225.000	1.4502E+01	6.3189E-01		225.000	1.5222E+01	1.0678E+00	
230.625	1.4376E+01	3.6436E-01		230.625	1.5093E+01	1.0252E+00	
236.250	1.4295E+01	1.4158E-01		236.250	1.5005E+01	1.0108E+00	
241.875	1.4230E+01	-9.5686E-02		241.875	1.4896E+01	9.4279E-01	
247.500	1.4177E+01	-3.5178E-01		247.500	1.4823E+01	9.0066E-01	
253.125	1.4154E+01	-5.0687E-01		253.125	1.4752E+01	8.3757E-01	
258.750	1.4140E+01	-6.2287E-01		258.750	1.4709E+01	8.0090E-01	
264.375	1.4110E+01	-8.2440E-01		264.375	1.4647E+01	7.1179E-01	
270.000	1.4120E+01	-7.8462E-01		270.000	1.4646E+01	7.1553E-01	
275.625	1.4109E+01	-8.3091E-01		275.625	1.4604E+01	6.3330E-01	
281.250	1.4121E+01	-7.2550E-01		281.250	1.4608E+01	6.2390E-01	
286.875	1.4106E+01	-7.4490E-01		286.875	1.4580E+01	5.4763E-01	
292.500	1.4112E+01	-6.4497E-01		292.500	1.4562E+01	4.8728E-01	
298.125	1.4109E+01	-5.8212E-01		298.125	1.4533E+01	4.0998E-01	
303.750	1.4122E+01	-4.5989E-01		303.750	1.4544E+01	3.8980E-01	
309.375	1.4173E+01	-2.4221E-01		309.375	1.4578E+01	3.9654E-01	
315.000	1.4216E+01	-9.6379E-02		315.000	1.4605E+01	3.8675E-01	
320.625	1.4301E+01	1.0114E-01		320.625	1.4660E+01	4.0226E-01	
326.250	1.4512E+01	4.7553E-01		326.250	1.4713E+01	4.0659E-01	
331.875	1.4537E+01	4.4499E-01		331.875	1.4774E+01	4.1261E-01	
337.500	1.4606E+01	4.7400E-01		337.500	1.4852E+01	4.2385E-01	
343.125	1.4668E+01	4.7937E-01		343.125	1.4914E+01	4.1930E-01	
348.750	1.4600E+01	3.4715E-01		348.750	1.5067E+01	4.6436E-01	
354.375	1.4633E+01	3.3234E-01		354.375	1.5250E+01	5.1254E-01	
360.000	1.4550E+01	2.2802E-01		360.000	1.4979E+01	3.3764E-01	

Table 11 (Continued). TABULATED PRESSURE DATA

P661	BLADE #2	LOWER SURFACE	P662	BLADE #2	LOWER SURFACE
x/C = 0.0400		r/R = 0.8650	x/C = 0.0700		r/R = 0.8650
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.5542E+01	4.5127E-01	0.000	1.4959E+01	2.4685E-01
5.625	1.5366E+01	3.5873E-01	5.625	1.4794E+01	1.7404E-01
11.250	1.5168E+01	2.7242E-01	11.250	1.4613E+01	1.0687E-01
16.875	1.4932E+01	1.8777E-01	16.875	1.4429E+01	4.8521E-02
22.500	1.4740E+01	1.2550E-01	22.500	1.4274E+01	5.2743E-03
28.125	1.4507E+01	6.1235E-02	28.125	1.4103E+01	-3.6559E-02
33.750	1.4374E+01	2.7396E-02	33.750	1.3994E+01	-5.9361E-02
39.375	1.4192E+01	-1.3530E-02	39.375	1.3846E+01	-8.8219E-02
45.000	1.4053E+01	-4.1402E-02	45.000	1.3729E+01	-1.0821E-01
50.625	1.3798E+01	-9.0145E-02	50.625	1.3526E+01	-1.4380E-01
56.250	1.3700E+01	-1.0547E-01	56.250	1.3447E+01	-1.5349E-01
61.875	1.3323E+01	-1.7153E-01	61.875	1.3173E+01	-1.9924E-01
67.500	1.3286E+01	-1.7381E-01	67.500	1.3150E+01	-1.9822E-01
73.125	1.3449E+01	-1.4161E-01	73.125	1.3225E+01	-1.8113E-01
78.750	1.3186E+01	-1.8529E-01	78.750	1.3018E+01	-2.1442E-01
84.375	1.2749E+01	-2.5875E-01	84.375	1.2651E+01	-2.7570E-01
90.000	1.2338E+01	-3.2855E-01	90.000	1.2374E+01	-3.2231E-01
95.625	1.2042E+01	-3.8047E-01	95.625	1.2100E+01	-3.7042E-01
101.250	1.1951E+01	-3.9946E-01	101.250	1.1994E+01	-3.9201E-01
106.875	9.4782E+00	-8.4048E-01	106.875	1.0234E+01	-7.0752E-01
112.500	7.4251E+00	-1.2263E+00	112.500	8.2630E+00	-1.0759E+00
118.125	7.6581E+00	-1.2156E+00	118.125	8.5430E+00	-1.0525E+00
123.750	7.4129E+00	-1.3014E+00	123.750	8.2746E+00	-1.1375E+00
129.375	7.9307E+00	-1.2486E+00	129.375	9.1872E+00	-1.0005E+00
135.000	8.3405E+00	-1.2190E+00	135.000	1.0944E+01	-6.8224E-01
140.625	9.2318E+00	-1.0867E+00	140.625	1.1263E+01	-6.4708E-01
146.250	1.0150E+01	-9.3717E-01	146.250	1.1275E+01	-6.8024E-01
151.875	1.0984E+01	-7.9236E-01	151.875	1.1684E+01	-6.2270E-01
157.500	1.1609E+01	-6.8332E-01	157.500	1.1981E+01	-5.8729E-01
163.125	1.2310E+01	-5.3834E-01	163.125	1.2472E+01	-4.9365E-01
168.750	1.2867E+01	-4.1362E-01	168.750	1.2886E+01	-4.0810E-01
174.375	1.3455E+01	-2.5783E-01	174.375	1.3328E+01	-2.9880E-01
180.000	1.3902E+01	-1.2343E-01	180.000	1.3656E+01	-2.0963E-01
185.625	1.4328E+01	2.8126E-02	185.625	1.3963E+01	-1.1099E-01
191.250	1.4623E+01	1.5409E-01	191.250	1.4194E+01	-2.4909E-02
196.875	1.4919E+01	3.0380E-01	196.875	1.4428E+01	7.9326E-02
202.500	1.5093E+01	4.2087E-01	202.500	1.4579E+01	1.6309E-01
208.125	1.5267E+01	5.5765E-01	208.125	1.4728E+01	2.6100E-01
213.750	1.5339E+01	6.5539E-01	213.750	1.4811E+01	3.3657E-01
219.375	1.5404E+01	7.6081E-01	219.375	1.4877E+01	4.1215E-01
225.000	1.5384E+01	8.1554E-01	225.000	1.4887E+01	4.5722E-01
230.625	1.5357E+01	8.6515E-01	230.625	1.4879E+01	4.9000E-01
236.250	1.5293E+01	8.7990E-01	236.250	1.4841E+01	4.9692E-01
241.875	1.5236E+01	8.9072E-01	241.875	1.4803E+01	4.9771E-01
247.500	1.5154E+01	8.6579E-01	247.500	1.4757E+01	4.8358E-01
253.125	1.5110E+01	8.6366E-01	253.125	1.4716E+01	4.6591E-01
258.750	1.5051E+01	8.3303E-01	258.750	1.4674E+01	4.3832E-01
264.375	1.5011E+01	8.0795E-01	264.375	1.4647E+01	4.1951E-01
270.000	1.4989E+01	7.9018E-01	270.000	1.4629E+01	4.0276E-01
275.625	1.4990E+01	7.8594E-01	275.625	1.4630E+01	4.0091E-01
281.250	1.4981E+01	7.5959E-01	281.250	1.4631E+01	3.9389E-01
286.875	1.4993E+01	7.4553E-01	286.875	1.4646E+01	3.9536E-01
292.500	1.4989E+01	7.0676E-01	292.500	1.4643E+01	3.7378E-01
298.125	1.4968E+01	6.4741E-01	298.125	1.4615E+01	3.2713E-01
303.750	1.4962E+01	5.9919E-01	303.750	1.4585E+01	2.8063E-01
309.375	1.5007E+01	5.9060E-01	309.375	1.4598E+01	2.6952E-01
315.000	1.5066E+01	5.8644E-01	315.000	1.4639E+01	2.7807E-01
320.625	1.5151E+01	5.9321E-01	320.625	1.4703E+01	2.9702E-01
326.250	1.5241E+01	5.9613E-01	326.250	1.4769E+01	3.1098E-01
331.875	1.5328E+01	5.9143E-01	331.875	1.4839E+01	3.2187E-01
337.500	1.5410E+01	5.7987E-01	337.500	1.4893E+01	3.2039E-01
343.125	1.5480E+01	5.6038E-01	343.125	1.4943E+01	3.1509E-01
348.750	1.5558E+01	5.4394E-01	348.750	1.4992E+01	3.0803E-01
354.375	1.5582E+01	5.0707E-01	354.375	1.5006E+01	2.8686E-01
360.000	1.5542E+01	4.5131E-01	360.000	1.4959E+01	2.4688E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P663	BLADE #2	LOWER SURFACE	P664	BLADE #2	LOWER SURFACE
x/C = 0.2000		r/R = 0.8650	x/C = 0.3500		r/R = 0.8650
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.4354E+01	3.5046E-02	0.000	1.4378E+01	4.3399E-02
5.625	1.4227E+01	-8.6355E-03	5.625	1.4280E+01	8.4841E-03
11.250	1.4109E+01	-4.3243E-02	11.250	1.4184E+01	-2.0856E-02
16.875	1.4003E+01	-6.9518E-02	16.875	1.4088E+01	-4.5989E-02
22.500	1.3911E+01	-8.8726E-02	22.500	1.4014E+01	-6.1903E-02
28.125	1.3839E+01	-1.0057E-01	28.125	1.3932E+01	-7.8006E-02
33.750	1.3812E+01	-1.0090E-01	33.750	1.3875E+01	-8.6453E-02
39.375	1.3771E+01	-1.0446E-01	39.375	1.3801E+01	-9.8078E-02
45.000	1.3684E+01	-1.1744E-01	45.000	1.3723E+01	-1.0953E-01
50.625	1.3589E+01	-1.3133E-01	50.625	1.3629E+01	-1.2340E-01
56.250	1.3544E+01	-1.3512E-01	56.250	1.3587E+01	-1.2681E-01
61.875	1.3451E+01	-1.4800E-01	61.875	1.3517E+01	-1.3584E-01
67.500	1.3412E+01	-1.5115E-01	67.500	1.3490E+01	-1.3723E-01
73.125	1.3421E+01	-1.4666E-01	73.125	1.3476E+01	-1.3692E-01
78.750	1.3270E+01	-1.7063E-01	78.750	1.3358E+01	-1.5546E-01
84.375	1.3056E+01	-2.0599E-01	84.375	1.3196E+01	-1.8191E-01
90.000	1.2895E+01	-2.3296E-01	90.000	1.3120E+01	-1.9449E-01
95.625	1.2795E+01	-2.5091E-01	95.625	1.3029E+01	-2.1070E-01
101.250	1.2460E+01	-3.1121E-01	101.250	1.2772E+01	-2.5706E-01
106.875	1.2035E+01	-3.9058E-01	106.875	1.2600E+01	-2.9117E-01
112.500	1.1912E+01	-4.2053E-01	112.500	1.2569E+01	-3.0268E-01
118.125	1.1958E+01	-4.2318E-01	118.125	1.2606E+01	-3.0374E-01
123.750	1.1997E+01	-4.2941E-01	123.750	1.2651E+01	-3.0486E-01
129.375	1.2060E+01	-4.3333E-01	129.375	1.2725E+01	-3.0203E-01
135.000	1.2148E+01	-4.3413E-01	135.000	1.2810E+01	-2.9767E-01
140.625	1.2299E+01	-4.2299E-01	140.625	1.2933E+01	-2.8581E-01
146.250	1.2481E+01	-4.0484E-01	146.250	1.3063E+01	-2.7195E-01
151.875	1.2692E+01	-3.7845E-01	151.875	1.3215E+01	-2.5181E-01
157.500	1.2899E+01	-3.5006E-01	157.500	1.3360E+01	-2.3113E-01
163.125	1.3137E+01	-3.0930E-01	163.125	1.3527E+01	-2.0141E-01
168.750	1.3339E+01	-2.7283E-01	168.750	1.3675E+01	-1.7275E-01
174.375	1.3541E+01	-2.2988E-01	174.375	1.3817E+01	-1.4101E-01
180.000	1.3714E+01	-1.8920E-01	180.000	1.3935E+01	-1.1162E-01
185.625	1.3866E+01	-1.4799E-01	185.625	1.4053E+01	-7.6903E-02
191.250	1.4000E+01	-1.0590E-01	191.250	1.4155E+01	-4.1428E-02
196.875	1.4122E+01	-6.0574E-02	196.875	1.4254E+01	-1.5823E-04
202.500	1.4216E+01	-1.8914E-02	202.500	1.4333E+01	3.9678E-02
208.125	1.4293E+01	2.1664E-02	208.125	1.4400E+01	8.0560E-02
213.750	1.4353E+01	5.9735E-02	213.750	1.4445E+01	1.1523E-01
219.375	1.4391E+01	9.0291E-02	219.375	1.4472E+01	1.4424E-01
225.000	1.4416E+01	1.1680E-01	225.000	1.4484E+01	1.6635E-01
230.625	1.4412E+01	1.2413E-01	230.625	1.4473E+01	1.7206E-01
236.250	1.4406E+01	1.2835E-01	236.250	1.4456E+01	1.7076E-01
241.875	1.4389E+01	1.2205E-01	241.875	1.4433E+01	1.6258E-01
247.500	1.4365E+01	1.0651E-01	247.500	1.4412E+01	1.5212E-01
253.125	1.4336E+01	8.2690E-02	253.125	1.4390E+01	1.3702E-01
258.750	1.4314E+01	6.2251E-02	258.750	1.4369E+01	1.1975E-01
264.375	1.4282E+01	3.0207E-02	264.375	1.4358E+01	1.1134E-01
270.000	1.4285E+01	3.2733E-02	270.000	1.4359E+01	1.1324E-01
275.625	1.4275E+01	2.2105E-02	275.625	1.4364E+01	1.1731E-01
281.250	1.4277E+01	2.4396E-02	281.250	1.4374E+01	1.2522E-01
286.875	1.4277E+01	2.2674E-02	286.875	1.4381E+01	1.2783E-01
292.500	1.4276E+01	2.1037E-02	292.500	1.4387E+01	1.2741E-01
298.125	1.4248E+01	-5.8307E-03	298.125	1.4365E+01	1.0042E-01
303.750	1.4191E+01	-5.3678E-02	303.750	1.4310E+01	4.7210E-02
309.375	1.4178E+01	-5.9928E-02	309.375	1.4279E+01	1.9750E-02
315.000	1.4195E+01	-4.2446E-02	315.000	1.4289E+01	2.5198E-02
320.625	1.4235E+01	-1.2382E-02	320.625	1.4315E+01	4.0307E-02
326.250	1.4280E+01	1.5729E-02	326.250	1.4341E+01	5.2727E-02
331.875	1.4313E+01	3.2441E-02	331.875	1.4367E+01	6.2012E-02
337.500	1.4337E+01	4.1385E-02	337.500	1.4376E+01	6.1134E-02
343.125	1.4367E+01	5.1519E-02	343.125	1.4388E+01	6.1400E-02
348.750	1.4386E+01	5.5153E-02	348.750	1.4391E+01	5.7294E-02
354.375	1.4403E+01	5.6747E-02	354.375	1.4404E+01	5.7057E-02
360.000	1.4354E+01	3.5049E-02	360.000	1.4378E+01	4.3403E-02

Table 11 (Continued). TABULATED PRESSURE DATA

P665 x/C = 0.5000	BLADE #2	LOWER SURFACE r/R = 0.8650	P667 x/C = 0.0670	BLADE #2	LOWER SURFACE r/R = 0.9025
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.4024E+01	-8.0500E-02	0.000	1.4982E+01	2.3420E-01
5.625	1.3933E+01	-1.0355E-01	5.625	1.4848E+01	1.7647E-01
11.250	1.3855E+01	-1.1909E-01	11.250	1.4658E+01	1.1141E-01
16.875	1.3754E+01	-1.3839E-01	16.875	1.4503E+01	6.4011E-02
22.500	1.3677E+01	-1.4915E-01	22.500	1.4319E+01	1.5642E-02
28.125	1.3609E+01	-1.5625E-01	28.125	1.4170E+01	-1.9027E-02
33.750	1.3535E+01	-1.6422E-01	33.750	1.4036E+01	-4.6448E-02
39.375	1.3447E+01	-1.7460E-01	39.375	1.3957E+01	-6.0068E-02
45.000	1.3379E+01	-1.8030E-01	45.000	1.3833E+01	-8.1307E-02
50.625	1.3282E+01	-1.9194E-01	50.625	1.3752E+01	-9.3046E-02
56.250	1.3238E+01	-1.9337E-01	56.250	1.3617E+01	-1.1378E-01
61.875	1.3195E+01	-1.9516E-01	61.875	1.3448E+01	-1.3959E-01
67.500	1.3194E+01	-1.9045E-01	67.500	1.3505E+01	-1.2657E-01
73.125	1.3156E+01	-1.9325E-01	73.125	1.3619E+01	-1.0519E-01
78.750	1.3032E+01	-2.1203E-01	78.750	1.3331E+01	-1.5080E-01
84.375	1.2887E+01	-2.3505E-01	84.375	1.3030E+01	-1.9829E-01
90.000	1.2865E+01	-2.3821E-01	90.000	1.2706E+01	-2.5005E-01
95.625	1.2745E+01	-2.5951E-01	95.625	1.2714E+01	-2.4942E-01
101.250	1.2586E+01	-2.8927E-01	101.250	1.1268E+01	-4.8778E-01
106.875	1.2514E+01	-3.0623E-01	106.875	8.9922E+00	-8.7162E-01
112.500	1.2516E+01	-3.1217E-01	112.500	8.5105E+00	-9.7025E-01
118.125	1.2576E+01	-3.0931E-01	118.125	8.3206E+00	-1.0279E+00
123.750	1.2623E+01	-3.1037E-01	123.750	8.2429E+00	-1.0738E+00
129.375	1.2686E+01	-3.0964E-01	129.375	8.3710E+00	-1.0896E+00
135.000	1.2779E+01	-3.0415E-01	135.000	1.0541E+01	-7.1687E-01
140.625	1.2896E+01	-2.9391E-01	140.625	1.1757E+01	-5.0516E-01
146.250	1.3012E+01	-2.8374E-01	146.250	1.1505E+01	-5.8594E-01
151.875	1.3125E+01	-2.7347E-01	151.875	1.1953E+01	-5.1935E-01
157.500	1.3256E+01	-2.5782E-01	157.500	1.2240E+01	-4.8368E-01
163.125	1.3407E+01	-2.3464E-01	163.125	1.2577E+01	-4.3069E-01
168.750	1.3523E+01	-2.1790E-01	168.750	1.2933E+01	-3.6428E-01
174.375	1.3633E+01	-2.0031E-01	174.375	1.3360E+01	-2.6592E-01
180.000	1.3733E+01	-1.8239E-01	180.000	1.3675E+01	-1.8631E-01
185.625	1.3844E+01	-1.5641E-01	185.625	1.3987E+01	-9.3408E-02
191.250	1.3911E+01	-1.4315E-01	191.250	1.4207E+01	-1.7798E-02
196.875	1.4019E+01	-1.0753E-01	196.875	1.4421E+01	6.9271E-02
202.500	1.4076E+01	-8.9078E-02	202.500	1.4598E+01	1.5576E-01
208.125	1.4115E+01	-7.6607E-02	208.125	1.4741E+01	2.4130E-01
213.750	1.4172E+01	-4.9308E-02	213.750	1.4840E+01	3.1699E-01
219.375	1.4181E+01	-4.8627E-02	219.375	1.4892E+01	3.7604E-01
225.000	1.4191E+01	-4.5253E-02	225.000	1.4917E+01	4.2434E-01
230.625	1.4177E+01	-6.0859E-02	230.625	1.4910E+01	4.5371E-01
236.250	1.4158E+01	-8.1793E-02	236.250	1.4883E+01	4.6758E-01
241.875	1.4144E+01	-9.9615E-02	241.875	1.4852E+01	4.7397E-01
247.500	1.4126E+01	-1.2328E-01	247.500	1.4791E+01	4.4936E-01
253.125	1.4119E+01	-1.3639E-01	253.125	1.4760E+01	4.4319E-01
258.750	1.4112E+01	-1.4844E-01	258.750	1.4722E+01	4.2349E-01
264.375	1.4083E+01	-1.8234E-01	264.375	1.4688E+01	4.0029E-01
270.000	1.4092E+01	-1.7418E-01	270.000	1.4674E+01	3.9041E-01
275.625	1.4092E+01	-1.7336E-01	275.625	1.4659E+01	3.7349E-01
281.250	1.4108E+01	-1.5253E-01	281.250	1.4687E+01	3.9160E-01
286.875	1.4103E+01	-1.5226E-01	286.875	1.4679E+01	3.7210E-01
292.500	1.4108E+01	-1.4077E-01	292.500	1.4669E+01	3.4722E-01
298.125	1.4094E+01	-1.4557E-01	298.125	1.4651E+01	3.1486E-01
303.750	1.4034E+01	-1.8619E-01	303.750	1.4583E+01	2.4435E-01
309.375	1.3996E+01	-2.0255E-01	309.375	1.4602E+01	2.4046E-01
315.000	1.3998E+01	-1.8457E-01	315.000	1.4659E+01	2.5918E-01
320.625	1.4024E+01	-1.5204E-01	320.625	1.4765E+01	3.0114E-01
326.250	1.4031E+01	-1.3497E-01	326.250	1.4818E+01	3.0488E-01
331.875	1.4056E+01	-1.0896E-01	331.875	1.4908E+01	3.2403E-01
337.500	1.4035E+01	-1.0982E-01	337.500	1.4954E+01	3.1711E-01
343.125	1.4055E+01	-9.0914E-02	343.125	1.4997E+01	3.0835E-01
348.750	1.4048E+01	-8.5811E-02	348.750	1.5046E+01	3.0109E-01
354.375	1.4063E+01	-7.2924E-02	354.375	1.5053E+01	2.7901E-01
360.000	1.4024E+01	-8.0508E-02	360.000	1.4982E+01	2.3422E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P668	BLADE #2	LOWER SURFACE	P669	BLADE #2	LOWER SURFACE
x/C = 0.0670		r/R = 0.9400	x/C = 0.0580		r/R = 0.9600
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.4897E+01	1.9056E-01	0.000	1.5686E+01	4.0727E-01
5.625	1.4765E+01	1.4034E-01	5.625	1.5539E+01	3.3922E-01
11.250	1.4557E+01	7.7583E-02	11.250	1.5304E+01	2.5813E-01
16.875	1.4380E+01	2.9941E-02	16.875	1.5120E+01	1.9916E-01
22.500	1.4172E+01	-1.8341E-02	22.500	1.4884E+01	1.3587E-01
28.125	1.3997E+01	-5.4211E-02	28.125	1.4726E+01	9.6020E-02
33.750	1.3866E+01	-7.7490E-02	33.750	1.4561E+01	5.9211E-02
39.375	1.3791E+01	-8.7802E-02	39.375	1.4513E+01	4.7497E-02
45.000	1.3700E+01	-1.0047E-01	45.000	1.4363E+01	1.9177E-02
50.625	1.3610E+01	-1.1217E-01	50.625	1.4304E+01	8.3524E-03
56.250	1.3485E+01	-1.2921E-01	56.250	1.4107E+01	-2.3955E-02
61.875	1.3339E+01	-1.4935E-01	61.875	1.4075E+01	-2.8292E-02
67.500	1.3540E+01	-1.1370E-01	67.500	1.4262E+01	1.2334E-03
73.125	1.3537E+01	-1.1203E-01	73.125	1.4311E+01	8.5761E-03
78.750	1.3263E+01	-1.5265E-01	78.750	1.3819E+01	-6.5066E-02
84.375	1.2854E+01	-2.1405E-01	84.375	1.3718E+01	-7.9442E-02
90.000	1.2891E+01	-2.0780E-01	90.000	1.3282E+01	-1.4373E-01
95.625	1.1494E+01	-4.2184E-01	95.625	1.1050E+01	-4.7508E-01
101.250	9.5449E+00	-7.2559E-01	101.250	9.7756E+00	-6.6937E-01
106.875	8.7785E+00	-8.5525E-01	106.875	9.2063E+00	-7.6464E-01
112.500	8.2573E+00	-9.5468E-01	112.500	8.5227E+00	-8.8462E-01
118.125	7.9356E+00	-1.0308E+00	118.125	8.3699E+00	-9.3032E-01
123.750	8.1257E+00	-1.0300E+00	123.750	8.2446E+00	-9.7840E-01
129.375	8.0590E+00	-1.0783E+00	129.375	8.6759E+00	-9.4006E-01
135.000	8.5434E+00	-1.0349E+00	135.000	8.6914E+00	-9.7536E-01
140.625	1.1168E+01	-5.8522E-01	140.625	1.0102E+01	-7.6132E-01
146.250	1.1797E+01	-4.9001E-01	146.250	1.2385E+01	-3.6014E-01
151.875	1.1534E+01	-5.7337E-01	151.875	1.2446E+01	-3.6784E-01
157.500	1.2031E+01	-4.9754E-01	157.500	1.2733E+01	-3.2822E-01
163.125	1.2312E+01	-4.6367E-01	163.125	1.2997E+01	-2.8905E-01
168.750	1.2720E+01	-3.9217E-01	168.750	1.3337E+01	-2.2545E-01
174.375	1.3083E+01	-3.2197E-01	174.375	1.3740E+01	-1.3571E-01
180.000	1.3417E+01	-2.4831E-01	180.000	1.4104E+01	-4.2639E-02
185.625	1.3712E+01	-1.7408E-01	185.625	1.4405E+01	4.6449E-02
191.250	1.3963E+01	-1.0127E-01	191.250	1.4692E+01	1.4568E-01
196.875	1.4195E+01	-2.2366E-02	196.875	1.4917E+01	2.3902E-01
202.500	1.4398E+01	5.9370E-02	202.500	1.5130E+01	3.4329E-01
208.125	1.4544E+01	1.2977E-01	208.125	1.5298E+01	4.4414E-01
213.750	1.4702E+01	2.1803E-01	213.750	1.5476E+01	5.6356E-01
219.375	1.4736E+01	2.5443E-01	219.375	1.5521E+01	6.3282E-01
225.000	1.4830E+01	3.2866E-01	225.000	1.5629E+01	7.4077E-01
230.625	1.4821E+01	3.4815E-01	230.625	1.5623E+01	7.9214E-01
236.250	1.4816E+01	3.6952E-01	236.250	1.5654E+01	8.6510E-01
241.875	1.4811E+01	3.8890E-01	241.875	1.5621E+01	8.9554E-01
247.500	1.4755E+01	3.6801E-01	247.500	1.5588E+01	9.1869E-01
253.125	1.4743E+01	3.7479E-01	253.125	1.5569E+01	9.4253E-01
258.750	1.4712E+01	3.6165E-01	258.750	1.5547E+01	9.5487E-01
264.375	1.4678E+01	3.4119E-01	264.375	1.5522E+01	9.5322E-01
270.000	1.4685E+01	3.4892E-01	270.000	1.5539E+01	9.7154E-01
275.625	1.4646E+01	3.1570E-01	275.625	1.5494E+01	9.3190E-01
281.250	1.4681E+01	3.3744E-01	281.250	1.5539E+01	9.4845E-01
286.875	1.4657E+01	3.0917E-01	286.875	1.5499E+01	8.9245E-01
292.500	1.4660E+01	2.9836E-01	292.500	1.5504E+01	8.6062E-01
298.125	1.4638E+01	2.6789E-01	298.125	1.5443E+01	7.7885E-01
303.750	1.4528E+01	1.7985E-01	303.750	1.5347E+01	6.7547E-01
309.375	1.4549E+01	1.8135E-01	309.375	1.5337E+01	6.2690E-01
315.000	1.4613E+01	2.0481E-01	315.000	1.5406E+01	6.2096E-01
320.625	1.4744E+01	2.5870E-01	320.625	1.5542E+01	6.4330E-01
326.250	1.4803E+01	2.6736E-01	326.250	1.5631E+01	6.3540E-01
331.875	1.4880E+01	2.8035E-01	331.875	1.5721E+01	6.2394E-01
337.500	1.4925E+01	2.7609E-01	337.500	1.5755E+01	5.8806E-01
343.125	1.4946E+01	2.6182E-01	343.125	1.5776E+01	5.4935E-01
348.750	1.4999E+01	2.5939E-01	348.750	1.5816E+01	5.1984E-01
354.375	1.5018E+01	2.4528E-01	354.375	1.5836E+01	4.8605E-01
360.000	1.4897E+01	1.9057E-01	360.000	1.5686E+01	4.0750E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P670	BLADE #2	LOWER SURFACE	r/R = 0.9600	P671	BLADE #2	LOWER SURFACE	r/R = 0.9600
x/C = 0.0800			CP	AZIMUTH	PSIA	CP	
				0.000	1.4112E+01	-4.0367E-02	
AZIMUTH	PSIA			5.625	1.4002E+01	-6.6662E-02	
0.000	1.4937E+01	1.9415E-01		11.250	1.3832E+01	-1.0388E-01	
5.625	1.4834E+01	1.5313E-01		16.875	1.3692E+01	-1.2913E-01	
11.250	1.4605E+01	8.6184E-02		22.500	1.3555E+01	-1.5078E-01	
16.875	1.4463E+01	4.8009E-02		28.125	1.3449E+01	-1.6385E-01	
22.500	1.4225E+01	-6.1866E-03		33.750	1.3316E+01	-1.8067E-01	
28.125	1.4094E+01	-3.2680E-02		39.375	1.3245E+01	-1.8493E-01	
33.750	1.3928E+01	-6.2780E-02		45.000	1.3107E+01	-2.0111E-01	
39.375	1.3934E+01	-5.8685E-02		50.625	1.3075E+01	-1.9874E-01	
45.000	1.3757E+01	-8.7136E-02		56.250	1.2974E+01	-2.0833E-01	
50.625	1.3739E+01	-8.6820E-02		61.875	1.2967E+01	-2.0347E-01	
56.250	1.3527E+01	-1.1831E-01		67.500	1.3036E+01	-1.8801E-01	
61.875	1.3560E+01	-1.0974E-01		73.125	1.2987E+01	-1.9191E-01	
67.500	1.3681E+01	-8.8498E-02		78.750	1.2785E+01	-2.1955E-01	
73.125	1.3728E+01	-7.9636E-02		84.375	1.2637E+01	-2.3971E-01	
78.750	1.3268E+01	-1.4733E-01		90.000	1.2370E+01	-2.7861E-01	
84.375	1.3241E+01	-1.5028E-01		95.625	1.1856E+01	-3.5559E-01	
90.000	1.2691E+01	-2.3108E-01		101.250	1.1696E+01	-3.8229E-01	
95.625	1.1942E+01	-3.4279E-01		106.875	1.1729E+01	-3.8250E-01	
101.250	1.0758E+01	-5.2255E-01		112.500	1.1952E+01	-3.5529E-01	
106.875	9.0450E+00	-7.8907E-01		118.125	1.2045E+01	-3.4930E-01	
112.500	8.8772E+00	-8.2990E-01		123.750	1.2058E+01	-3.5750E-01	
118.125	8.6749E+00	-8.8210E-01		129.375	1.2026E+01	-3.7547E-01	
123.750	8.6330E+00	-9.1516E-01		135.000	1.2027E+01	-3.9057E-01	
129.375	9.1748E+00	-8.5599E-01		140.625	1.2069E+01	-4.0062E-01	
135.000	1.1907E+01	-4.1158E-01		146.250	1.2243E+01	-3.8749E-01	
140.625	1.2492E+01	-3.2305E-01		151.875	1.2411E+01	-3.7485E-01	
146.250	1.2031E+01	-4.2835E-01		157.500	1.2617E+01	-3.5329E-01	
151.875	1.2313E+01	-3.9480E-01		163.125	1.2826E+01	-3.2834E-01	
157.500	1.2594E+01	-3.5815E-01		168.750	1.3052E+01	-2.9548E-01	
163.125	1.2943E+01	-3.0136E-01		174.375	1.3241E+01	-2.6753E-01	
168.750	1.3210E+01	-2.5680E-01		180.000	1.3426E+01	-2.3547E-01	
174.375	1.3441E+01	-2.1450E-01		185.625	1.3565E+01	-2.1161E-01	
180.000	1.3699E+01	-1.5789E-01		191.250	1.3728E+01	-1.7516E-01	
185.625	1.3940E+01	-9.6554E-02		196.875	1.3867E+01	-1.3953E-01	
191.250	1.4169E+01	-2.8298E-02		202.500	1.3984E+01	-1.0573E-01	
196.875	1.4376E+01	4.4025E-02		208.125	1.4090E+01	-6.9998E-02	
202.500	1.4549E+01	1.1558E-01		213.750	1.4208E+01	-2.1211E-02	
208.125	1.4680E+01	1.8106E-01		219.375	1.4221E+01	-1.6540E-02	
213.750	1.4845E+01	2.7283E-01		225.000	1.4274E+01	1.0636E-02	
219.375	1.4879E+01	3.1208E-01		230.625	1.4293E+01	2.2375E-02	
225.000	1.4973E+01	3.8736E-01		236.250	1.4291E+01	2.2672E-02	
230.625	1.4972E+01	4.1511E-01		241.875	1.4301E+01	3.0682E-02	
236.250	1.5009E+01	4.6674E-01		247.500	1.4269E+01	1.0276E-02	
241.875	1.4991E+01	4.8250E-01		253.125	1.4257E+01	2.3959E-03	
247.500	1.4947E+01	4.7727E-01		258.750	1.4259E+01	3.8546E-03	
253.125	1.4949E+01	4.9783E-01		264.375	1.4245E+01	-7.1428E-03	
258.750	1.4915E+01	4.8771E-01		270.000	1.4258E+01	2.7789E-03	
264.375	1.4886E+01	4.7481E-01		275.625	1.4227E+01	-2.0274E-02	
270.000	1.4911E+01	4.9659E-01		281.250	1.4265E+01	7.7497E-03	
275.625	1.4870E+01	4.6284E-01		286.875	1.4230E+01	-1.7302E-02	
281.250	1.4905E+01	4.8026E-01		292.500	1.4224E+01	-2.1045E-02	
286.875	1.4885E+01	4.5223E-01		298.125	1.4214E+01	-2.6519E-02	
292.500	1.4878E+01	4.2962E-01		303.750	1.4103E+01	-9.3484E-02	
298.125	1.4842E+01	3.8521E-01		309.375	1.4083E+01	-9.8886E-02	
303.750	1.4724E+01	2.9043E-01		315.000	1.4078E+01	-9.5010E-02	
309.375	1.4726E+01	2.7322E-01		320.625	1.4155E+01	-4.9497E-02	
315.000	1.4768E+01	2.7697E-01		326.250	1.4197E+01	-2.6362E-02	
320.625	1.4887E+01	3.1591E-01		331.875	1.4231E+01	-9.9623E-03	
326.250	1.4950E+01	3.2101E-01		337.500	1.4223E+01	-1.2172E-02	
331.875	1.5025E+01	3.2788E-01		343.125	1.4205E+01	-1.7744E-02	
337.500	1.5020E+01	3.0005E-01		348.750	1.4210E+01	-1.4545E-02	
343.125	1.5040E+01	2.8348E-01		354.375	1.4211E+01	-1.3305E-02	
348.750	1.5080E+01	2.7483E-01		360.000	1.4112E+01	-4.0371E-02	
354.375	1.5085E+01	2.5534E-01					
360.000	1.4937E+01	1.9416E-01					

Table 11 (Continued). TABULATED PRESSURE DATA

P672	BLADE #2	LOWER SURFACE	P673	BLADE #2	LOWER SURFACE
x/C = 0.3500		r/R = 0.9600	x/C = 0.5000		r/R = 0.9600
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.4118E+01	-3.8699E-02	0.000	1.4043E+01	-5.9945E-02
5.625	1.4038E+01	-5.7109E-02	5.625	1.3981E+01	-7.1998E-02
11.250	1.3925E+01	-8.0988E-02	11.250	1.3880E+01	-9.1997E-02
16.875	1.3847E+01	-9.3641E-02	16.875	1.3797E+01	-1.0509E-01
22.500	1.3763E+01	-1.0603E-01	22.500	1.3710E+01	-1.1743E-01
28.125	1.3684E+01	-1.1598E-01	28.125	1.3616E+01	-1.2979E-01
33.750	1.3607E+01	-1.2466E-01	33.750	1.3543E+01	-1.3703E-01
39.375	1.3560E+01	-1.2718E-01	39.375	1.3477E+01	-1.4242E-01
45.000	1.3476E+01	-1.3636E-01	45.000	1.3386E+01	-1.5228E-01
50.625	1.3418E+01	-1.4096E-01	50.625	1.3315E+01	-1.5831E-01
56.250	1.3378E+01	-1.4271E-01	56.250	1.3259E+01	-1.6196E-01
61.875	1.3386E+01	-1.3727E-01	61.875	1.3252E+01	-1.5837E-01
67.500	1.3408E+01	-1.3059E-01	67.500	1.3271E+01	-1.5174E-01
73.125	1.3347E+01	-1.3746E-01	73.125	1.3202E+01	-1.5933E-01
78.750	1.3225E+01	-1.5374E-01	78.750	1.3084E+01	-1.7488E-01
84.375	1.3173E+01	-1.6031E-01	84.375	1.3020E+01	-1.8298E-01
90.000	1.3031E+01	-1.8080E-01	90.000	1.2931E+01	-1.9566E-01
95.625	1.2765E+01	-2.2079E-01	95.625	1.2781E+01	-2.1835E-01
101.250	1.2702E+01	-2.3202E-01	101.250	1.2733E+01	-2.2738E-01
106.875	1.2677E+01	-2.3889E-01	106.875	1.2739E+01	-2.2956E-01
112.500	1.2716E+01	-2.3742E-01	112.500	1.2770E+01	-2.2900E-01
118.125	1.2752E+01	-2.3757E-01	118.125	1.2810E+01	-2.2833E-01
123.750	1.2810E+01	-2.3514E-01	123.750	1.2866E+01	-2.2608E-01
129.375	1.2844E+01	-2.3758E-01	129.375	1.2907E+01	-2.2699E-01
135.000	1.2876E+01	-2.4158E-01	135.000	1.2957E+01	-2.2739E-01
140.625	1.2944E+01	-2.4025E-01	140.625	1.3044E+01	-2.2192E-01
146.250	1.3056E+01	-2.3077E-01	146.250	1.3146E+01	-2.1342E-01
151.875	1.3191E+01	-2.1622E-01	151.875	1.3264E+01	-2.0144E-01
157.500	1.3313E+01	-2.0309E-01	157.500	1.3368E+01	-1.9115E-01
163.125	1.3457E+01	-1.8316E-01	163.125	1.3504E+01	-1.7240E-01
168.750	1.3606E+01	-1.5924E-01	168.750	1.3626E+01	-1.5452E-01
174.375	1.3742E+01	-1.3518E-01	174.375	1.3729E+01	-1.3875E-01
180.000	1.3852E+01	-1.1420E-01	180.000	1.3824E+01	-1.2237E-01
185.625	1.3967E+01	-8.8300E-02	185.625	1.3932E+01	-9.9088E-02
191.250	1.4057E+01	-6.5703E-02	191.250	1.4018E+01	-7.8516E-02
196.875	1.4146E+01	-3.8977E-02	196.875	1.4105E+01	-5.3769E-02
202.500	1.4210E+01	-1.7446E-02	202.500	1.4182E+01	-2.8080E-02
208.125	1.4255E+01	3.4639E-04	208.125	1.4241E+01	-5.7228E-03
213.750	1.4325E+01	3.2924E-02	213.750	1.4321E+01	3.0877E-02
219.375	1.4344E+01	4.4820E-02	219.375	1.4320E+01	3.2983E-02
225.000	1.4385E+01	7.0343E-02	225.000	1.4358E+01	5.5985E-02
230.625	1.4380E+01	7.2659E-02	230.625	1.4348E+01	5.4277E-02
236.250	1.4390E+01	8.3845E-02	236.250	1.4354E+01	6.1832E-02
241.875	1.4390E+01	8.8832E-02	241.875	1.4364E+01	7.2225E-02
247.500	1.4353E+01	6.8311E-02	247.500	1.4329E+01	5.1263E-02
253.125	1.4358E+01	7.4820E-02	253.125	1.4334E+01	5.7305E-02
258.750	1.4343E+01	6.5706E-02	258.750	1.4317E+01	4.6665E-02
264.375	1.4325E+01	5.3508E-02	264.375	1.4295E+01	3.1098E-02
270.000	1.4340E+01	6.4764E-02	270.000	1.4314E+01	4.5307E-02
275.625	1.4316E+01	4.6153E-02	275.625	1.4283E+01	2.2017E-02
281.250	1.4333E+01	5.8533E-02	281.250	1.4308E+01	3.9813E-02
286.875	1.4319E+01	4.6828E-02	286.875	1.4286E+01	2.2841E-02
292.500	1.4306E+01	3.5885E-02	292.500	1.4268E+01	9.6040E-03
298.125	1.4275E+01	1.3635E-02	298.125	1.4238E+01	-1.0467E-02
303.750	1.4195E+01	-3.6572E-02	303.750	1.4171E+01	-5.1500E-02
309.375	1.4153E+01	-5.8385E-02	309.375	1.4127E+01	-7.3633E-02
315.000	1.4163E+01	-4.9224E-02	315.000	1.4116E+01	-7.4303E-02
320.625	1.4217E+01	-1.8430E-02	320.625	1.4170E+01	-4.1817E-02
326.250	1.4234E+01	-9.1931E-03	326.250	1.4172E+01	-3.7703E-02
331.875	1.4238E+01	-6.7422E-03	331.875	1.4171E+01	-3.5468E-02
337.500	1.4224E+01	-1.1610E-02	337.500	1.4146E+01	-4.2374E-02
343.125	1.4194E+01	-2.1653E-02	343.125	1.4113E+01	-5.0784E-02
348.750	1.4210E+01	-1.4701E-02	348.750	1.4118E+01	-4.5327E-02
354.375	1.4206E+01	-1.4758E-02	354.375	1.4123E+01	-4.0219E-02
360.000	1.4118E+01	-3.8702E-02	360.000	1.4043E+01	-5.9950E-02

Table 11 (Continued). TABULATED PRESSURE DATA

P674	BLADE #2	LOWER SURFACE	P675	BLADE #4	LOWER SURFACE
x/C = 0.8200		r/R = 0.9600	x/C = 0.0300		r/R = 0.6850
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.3490E+01	-2.1720E-01	0.000	1.4828E+01	3.2037E-01
5.625	1.3459E+01	-2.0993E-01	5.625	1.4716E+01	2.3266E-01
11.250	1.3411E+01	-2.0735E-01	11.250	1.4493E+01	1.0938E-01
16.875	1.3354E+01	-2.0683E-01	16.875	1.4306E+01	2.1537E-02
22.500	1.3306E+01	-2.0449E-01	22.500	1.4124E+01	-5.0013E-02
28.125	1.3253E+01	-2.0360E-01	28.125	1.3991E+01	-9.3325E-02
33.750	1.3197E+01	-2.0367E-01	33.750	1.3945E+01	-1.0209E-01
39.375	1.3138E+01	-2.0468E-01	39.375	1.3932E+01	-9.9548E-02
45.000	1.3071E+01	-2.0745E-01	45.000	1.3920E+01	-9.7598E-02
50.625	1.3009E+01	-2.0992E-01	50.625	1.3844E+01	-1.1387E-01
56.250	1.2970E+01	-2.0912E-01	56.250	1.3773E+01	-1.2759E-01
61.875	1.2944E+01	-2.0707E-01	61.875	1.3651E+01	-1.5420E-01
67.500	1.2969E+01	-1.9830E-01	67.500	1.3434E+01	-2.0347E-01
73.125	1.2885E+01	-2.0734E-01	73.125	1.2936E+01	-3.1912E-01
78.750	1.2840E+01	-2.1138E-01	78.750	1.2691E+01	-3.7205E-01
84.375	1.2849E+01	-2.0828E-01	84.375	1.2797E+01	-3.4329E-01
90.000	1.2775E+01	-2.1876E-01	90.000	1.2483E+01	-4.1600E-01
95.625	1.2804E+01	-2.1496E-01	95.625	1.2032E+01	-5.2359E-01
101.250	1.2832E+01	-2.1258E-01	101.250	1.1988E+01	-5.3953E-01
106.875	1.2835E+01	-2.1492E-01	106.875	1.2159E+01	-5.0743E-01
112.500	1.2865E+01	-2.1441E-01	112.500	1.2131E+01	-5.2643E-01
118.125	1.2888E+01	-2.1593E-01	118.125	1.2146E+01	-5.3891E-01
123.750	1.2919E+01	-2.1731E-01	123.750	1.2052E+01	-5.8433E-01
129.375	1.2930E+01	-2.2310E-01	129.375	1.2074E+01	-6.0463E-01
135.000	1.2972E+01	-2.2489E-01	135.000	1.2005E+01	-6.5633E-01
140.625	1.3021E+01	-2.2616E-01	140.625	1.2042E+01	-6.8417E-01
146.250	1.3080E+01	-2.2612E-01	146.250	1.2403E+01	-6.1068E-01
151.875	1.3126E+01	-2.2956E-01	151.875	1.2835E+01	-5.0282E-01
157.500	1.3171E+01	-2.3378E-01	157.500	1.3265E+01	-3.7891E-01
163.125	1.3242E+01	-2.3265E-01	163.125	1.3731E+01	-2.1816E-01
168.750	1.3298E+01	-2.3498E-01	168.750	1.4122E+01	-6.0310E-02
174.375	1.3355E+01	-2.3726E-01	174.375	1.4468E+01	1.0756E-01
180.000	1.3406E+01	-2.4128E-01	180.000	1.4742E+01	2.7226E-01
185.625	1.3464E+01	-2.4280E-01	185.625	1.4955E+01	4.3640E-01
191.250	1.3523E+01	-2.4339E-01	191.250	1.5119E+01	6.0382E-01
196.875	1.3577E+01	-2.4423E-01	196.875	1.5211E+01	7.5262E-01
202.500	1.3619E+01	-2.4886E-01	202.500	1.5232E+01	8.6946E-01
208.125	1.3661E+01	-2.5209E-01	208.125	1.5191E+01	9.4364E-01
213.750	1.3694E+01	-2.5859E-01	213.750	1.5142E+01	1.0148E+00
219.375	1.3710E+01	-2.7183E-01	219.375	1.5053E+01	1.0361E+00
225.000	1.3723E+01	-2.8611E-01	225.000	1.4930E+01	9.9244E-01
230.625	1.3732E+01	-3.0220E-01	230.625	1.4861E+01	1.0035E+00
236.250	1.3748E+01	-3.1287E-01	236.250	1.4757E+01	9.3188E-01
241.875	1.3742E+01	-3.3529E-01	241.875	1.4689E+01	8.9235E-01
247.500	1.3727E+01	-3.6266E-01	247.500	1.4631E+01	8.4535E-01
253.125	1.3723E+01	-3.8043E-01	253.125	1.4575E+01	7.7381E-01
258.750	1.3720E+01	-3.9438E-01	258.750	1.4533E+01	7.1128E-01
264.375	1.3715E+01	-4.0504E-01	264.375	1.4508E+01	6.6925E-01
270.000	1.3723E+01	-4.0131E-01	270.000	1.4488E+01	6.2185E-01
275.625	1.3710E+01	-4.0881E-01	275.625	1.4458E+01	5.3561E-01
281.250	1.3709E+01	-4.0221E-01	281.250	1.4455E+01	5.1142E-01
286.875	1.3693E+01	-4.0214E-01	286.875	1.4441E+01	4.4965E-01
292.500	1.3676E+01	-3.9826E-01	292.500	1.4440E+01	4.1746E-01
298.125	1.3645E+01	-3.9905E-01	298.125	1.4444E+01	3.9002E-01
303.750	1.3591E+01	-4.0992E-01	303.750	1.4457E+01	3.7622E-01
309.375	1.3525E+01	-4.2177E-01	309.375	1.4480E+01	3.7408E-01
315.000	1.3502E+01	-4.0512E-01	315.000	1.4516E+01	3.8511E-01
320.625	1.3548E+01	-3.5272E-01	320.625	1.4575E+01	4.1697E-01
326.250	1.3567E+01	-3.1719E-01	326.250	1.4625E+01	4.2443E-01
331.875	1.3559E+01	-2.9556E-01	331.875	1.4691E+01	4.4039E-01
337.500	1.3542E+01	-2.7899E-01	337.500	1.4772E+01	4.6046E-01
343.125	1.3528E+01	-2.6194E-01	343.125	1.4952E+01	5.4916E-01
348.750	1.3522E+01	-2.4353E-01	348.750	1.5107E+01	5.9588E-01
354.375	1.3523E+01	-2.2478E-01	354.375	1.4921E+01	4.1529E-01
360.000	1.3490E+01	-2.1721E-01	360.000	1.4828E+01	3.2041E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P676	BLADE #4	LOWER SURFACE	P677	BLADE #4	LOWER SURFACE
x/C = 0.0700		r/R = 0.6850	x/C = 0.2000		r/R = 0.6850
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.4414E+01	8.9188E-02	0.000	1.4102E+01	-8.5050E-02
5.625	1.4313E+01	2.9530E-02	5.625	1.4079E+01	-8.8055E-02
11.250	1.4159E+01	-4.3311E-02	11.250	1.4009E+01	-1.1185E-01
16.875	1.4006E+01	-1.0346E-01	16.875	1.3978E+01	-1.1512E-01
22.500	1.3863E+01	-1.4963E-01	22.500	1.3947E+01	-1.1780E-01
28.125	1.3756E+01	-1.7639E-01	28.125	1.3924E+01	-1.1693E-01
33.750	1.3708E+01	-1.8007E-01	33.750	1.3955E+01	-9.8626E-02
39.375	1.3677E+01	-1.7834E-01	39.375	1.3965E+01	-8.9484E-02
45.000	1.3651E+01	-1.7612E-01	45.000	1.3986E+01	-7.8299E-02
50.625	1.3565E+01	-1.9102E-01	50.625	1.3984E+01	-7.4895E-02
56.250	1.3497E+01	-2.0088E-01	56.250	1.3963E+01	-7.7241E-02
61.875	1.3412E+01	-2.1535E-01	61.875	1.3954E+01	-7.6659E-02
67.500	1.3226E+01	-2.5486E-01	67.500	1.3884E+01	-9.1732E-02
73.125	1.2917E+01	-3.2389E-01	73.125	1.3755E+01	-1.2077E-01
78.750	1.2779E+01	-3.5115E-01	78.750	1.3712E+01	-1.2899E-01
84.375	1.2849E+01	-3.3116E-01	84.375	1.3677E+01	-1.3598E-01
90.000	1.2581E+01	-3.9299E-01	90.000	1.3584E+01	-1.5745E-01
95.625	1.2292E+01	-4.6232E-01	95.625	1.3502E+01	-1.7736E-01
101.250	1.2299E+01	-4.6551E-01	101.250	1.3521E+01	-1.7453E-01
106.875	1.2380E+01	-4.5378E-01	106.875	1.3544E+01	-1.7197E-01
112.500	1.2391E+01	-4.6207E-01	112.500	1.3565E+01	-1.7096E-01
118.125	1.2394E+01	-4.7555E-01	118.125	1.3550E+01	-1.7999E-01
123.750	1.2365E+01	-5.0142E-01	123.750	1.3540E+01	-1.8965E-01
129.375	1.2385E+01	-5.1837E-01	129.375	1.3532E+01	-2.0035E-01
135.000	1.2369E+01	-5.5033E-01	135.000	1.3542E+01	-2.0777E-01
140.625	1.2467E+01	-5.5258E-01	140.625	1.3594E+01	-2.0400E-01
146.250	1.2751E+01	-4.9600E-01	146.250	1.3688E+01	-1.8680E-01
151.875	1.3041E+01	-4.2976E-01	151.875	1.3788E+01	-1.6504E-01
157.500	1.3347E+01	-3.4735E-01	157.500	1.3935E+01	-1.2210E-01
163.125	1.3664E+01	-2.4587E-01	163.125	1.4043E+01	-8.8077E-02
168.750	1.3941E+01	-1.4283E-01	168.750	1.4096E+01	-7.2259E-02
174.375	1.4182E+01	-3.6309E-02	174.375	1.4174E+01	-4.0257E-02
180.000	1.4382E+01	7.1329E-02	180.000	1.4261E+01	3.6512E-03
185.625	1.4560E+01	1.9032E-01	185.625	1.4314E+01	3.7291E-02
191.250	1.4698E+01	3.1020E-01	191.250	1.4372E+01	8.2272E-02
196.875	1.4784E+01	4.1674E-01	196.875	1.4394E+01	1.0986E-01
202.500	1.4829E+01	5.1138E-01	202.500	1.4394E+01	1.2445E-01
208.125	1.4828E+01	5.7871E-01	208.125	1.4394E+01	1.4129E-01
213.750	1.4827E+01	6.5509E-01	213.750	1.4351E+01	1.1130E-01
219.375	1.4765E+01	6.6328E-01	219.375	1.4324E+01	9.0809E-02
225.000	1.4720E+01	6.8494E-01	225.000	1.4274E+01	2.9223E-02
230.625	1.4660E+01	6.7168E-01	230.625	1.4233E+01	-3.4446E-02
236.250	1.4601E+01	6.4274E-01	236.250	1.4182E+01	-1.3313E-01
241.875	1.4549E+01	6.0488E-01	241.875	1.4145E+01	-2.2408E-01
247.500	1.4479E+01	5.0502E-01	247.500	1.4087E+01	-3.7485E-01
253.125	1.4442E+01	4.5380E-01	253.125	1.4061E+01	-4.6581E-01
258.750	1.4405E+01	3.8367E-01	258.750	1.4022E+01	-5.9135E-01
264.375	1.4375E+01	3.1918E-01	264.375	1.4017E+01	-6.2435E-01
270.000	1.4363E+01	2.9006E-01	270.000	1.3990E+01	-7.0297E-01
275.625	1.4332E+01	2.0396E-01	275.625	1.3993E+01	-6.8685E-01
281.250	1.4332E+01	1.9716E-01	281.250	1.3984E+01	-6.8882E-01
286.875	1.4323E+01	1.6687E-01	286.875	1.3982E+01	-6.5687E-01
292.500	1.4307E+01	1.1784E-01	292.500	1.3966E+01	-6.4653E-01
298.125	1.4298E+01	9.0318E-02	298.125	1.3959E+01	-6.0576E-01
303.750	1.4286E+01	5.9507E-02	303.750	1.3938E+01	-5.8454E-01
309.375	1.4280E+01	4.3008E-02	309.375	1.3927E+01	-5.4176E-01
315.000	1.4292E+01	5.5407E-02	315.000	1.3933E+01	-4.7192E-01
320.625	1.4312E+01	7.4900E-02	320.625	1.3964E+01	-3.7659E-01
326.250	1.4356E+01	1.1696E-01	326.250	1.3992E+01	-2.9994E-01
331.875	1.4401E+01	1.4762E-01	331.875	1.4026E+01	-2.3043E-01
337.500	1.4424E+01	1.5124E-01	337.500	1.4053E+01	-1.7888E-01
343.125	1.4571E+01	2.4959E-01	343.125	1.4170E+01	-6.6392E-02
348.750	1.4672E+01	2.9161E-01	348.750	1.4226E+01	-1.9753E-02
354.375	1.4519E+01	1.6500E-01	354.375	1.4142E+01	-6.9555E-02
360.000	1.4414E+01	8.9198E-02	360.000	1.4102E+01	-8.5060E-02

Table 11 (Continued). TABULATED PRESSURE DATA

P678	BLADE #4	LOWER SURFACE	P679	BLADE #4	LOWER SURFACE
x/C = 0.3500		r/R = 0.6850	x/C = 0.5000		r/R = 0.6850
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.4118E+01	-7.6219E-02	0.000	1.3899E+01	-1.9845E-01
5.625	1.4083E+01	-8.6288E-02	5.625	1.3871E+01	-1.9281E-01
11.250	1.4031E+01	-1.0210E-01	11.250	1.3808E+01	-2.0363E-01
16.875	1.3985E+01	-1.1213E-01	16.875	1.3759E+01	-2.0659E-01
22.500	1.3948E+01	-1.1732E-01	22.500	1.3703E+01	-2.1108E-01
28.125	1.3924E+01	-1.1686E-01	28.125	1.3669E+01	-2.0720E-01
33.750	1.3909E+01	-1.1399E-01	33.750	1.3643E+01	-2.0174E-01
39.375	1.3906E+01	-1.0762E-01	39.375	1.3616E+01	-1.9739E-01
45.000	1.3872E+01	-1.1143E-01	45.000	1.3566E+01	-2.0082E-01
50.625	1.3869E+01	-1.0685E-01	50.625	1.3544E+01	-1.9687E-01
56.250	1.3832E+01	-1.1212E-01	56.250	1.3489E+01	-2.0302E-01
61.875	1.3782E+01	-1.2064E-01	61.875	1.3453E+01	-2.0489E-01
67.500	1.3676E+01	-1.4338E-01	67.500	1.3368E+01	-2.1967E-01
73.125	1.3528E+01	-1.7570E-01	73.125	1.3281E+01	-2.3566E-01
78.750	1.3484E+01	-1.8325E-01	78.750	1.3250E+01	-2.3897E-01
84.375	1.3495E+01	-1.7894E-01	84.375	1.3258E+01	-2.3475E-01
90.000	1.3403E+01	-1.9988E-01	90.000	1.3188E+01	-2.5047E-01
95.625	1.3348E+01	-2.1348E-01	95.625	1.3162E+01	-2.5742E-01
101.250	1.3377E+01	-2.0873E-01	101.250	1.3190E+01	-2.5329E-01
106.875	1.3387E+01	-2.1005E-01	106.875	1.3188E+01	-2.5813E-01
112.500	1.3385E+01	-2.1545E-01	112.500	1.3188E+01	-2.6433E-01
118.125	1.3370E+01	-2.2595E-01	118.125	1.3184E+01	-2.7353E-01
123.750	1.3384E+01	-2.3092E-01	123.750	1.3217E+01	-2.7536E-01
129.375	1.3404E+01	-2.3588E-01	129.375	1.3257E+01	-2.7661E-01
135.000	1.3465E+01	-2.3040E-01	135.000	1.3323E+01	-2.7171E-01
140.625	1.3540E+01	-2.2074E-01	140.625	1.3402E+01	-2.6351E-01
146.250	1.3631E+01	-2.0547E-01	146.250	1.3501E+01	-2.4852E-01
151.875	1.3720E+01	-1.8930E-01	151.875	1.3577E+01	-2.3988E-01
157.500	1.3839E+01	-1.5908E-01	157.500	1.3700E+01	-2.1246E-01
163.125	1.3928E+01	-1.3610E-01	163.125	1.3789E+01	-1.9410E-01
168.750	1.4042E+01	-9.6761E-02	168.750	1.3869E+01	-1.7576E-01
174.375	1.4182E+01	-3.6107E-02	174.375	1.3945E+01	-1.5587E-01
180.000	1.4240E+01	-8.1401E-03	180.000	1.4034E+01	-1.2275E-01
185.625	1.4298E+01	2.7591E-02	185.625	1.4092E+01	-1.0102E-01
191.250	1.4349E+01	6.6655E-02	191.250	1.4154E+01	-6.9722E-02
196.875	1.4393E+01	1.0919E-01	196.875	1.4183E+01	-5.5625E-02
202.500	1.4397E+01	1.2722E-01	202.500	1.4204E+01	-4.4894E-02
208.125	1.4405E+01	1.5222E-01	208.125	1.4200E+01	-5.4818E-02
213.750	1.4385E+01	1.4929E-01	213.750	1.4195E+01	-6.7269E-02
219.375	1.4357E+01	1.3348E-01	219.375	1.4178E+01	-9.8872E-02
225.000	1.4329E+01	1.1005E-01	225.000	1.4156E+01	-1.4429E-01
230.625	1.4299E+01	7.3526E-02	230.625	1.4133E+01	-2.0039E-01
236.250	1.4274E+01	3.5986E-02	236.250	1.4109E+01	-2.6934E-01
241.875	1.4229E+01	-5.0815E-02	241.875	1.4074E+01	-3.6845E-01
247.500	1.4206E+01	-1.0693E-01	247.500	1.4049E+01	-4.6069E-01
253.125	1.4171E+01	-1.9947E-01	253.125	1.4025E+01	-5.5166E-01
258.750	1.4161E+01	-2.3808E-01	258.750	1.4008E+01	-6.2557E-01
264.375	1.4145E+01	-2.8832E-01	264.375	1.4005E+01	-6.5720E-01
270.000	1.4130E+01	-3.3123E-01	270.000	1.3997E+01	-6.8409E-01
275.625	1.4129E+01	-3.3035E-01	275.625	1.3988E+01	-6.9978E-01
281.250	1.4121E+01	-3.3991E-01	281.250	1.3990E+01	-6.7234E-01
286.875	1.4124E+01	-3.1335E-01	286.875	1.3981E+01	-6.5842E-01
292.500	1.4120E+01	-3.0125E-01	292.500	1.3981E+01	-6.1236E-01
298.125	1.4106E+01	-3.0396E-01	298.125	1.3969E+01	-5.8362E-01
303.750	1.4091E+01	-3.0158E-01	303.750	1.3952E+01	-5.6009E-01
309.375	1.4068E+01	-3.0888E-01	309.375	1.3928E+01	-5.4005E-01
315.000	1.4059E+01	-2.8672E-01	315.000	1.3912E+01	-5.0267E-01
320.625	1.4076E+01	-2.3088E-01	320.625	1.3913E+01	-4.4299E-01
326.250	1.4106E+01	-1.6903E-01	326.250	1.3948E+01	-3.4956E-01
331.875	1.4112E+01	-1.4292E-01	331.875	1.3937E+01	-3.2004E-01
337.500	1.4118E+01	-1.2128E-01	337.500	1.3915E+01	-3.0148E-01
343.125	1.4191E+01	-4.9915E-02	343.125	1.3972E+01	-2.2227E-01
348.750	1.4226E+01	-1.9830E-02	348.750	1.3992E+01	-1.8337E-01
354.375	1.4155E+01	-6.1861E-02	354.375	1.3947E+01	-1.9152E-01
360.000	1.4118E+01	-7.6228E-02	360.000	1.3899E+01	-1.9847E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P680	BLADE #4	LOWER SURFACE	P681	BLADE #4	LOWER SURFACE
x/C = 0.8200		r/R = 0.6850	x/C = 0.0300		r/R = 0.7300
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.4189E+01	-3.6189E-02	0.000	1.4701E+01	2.1993E-01
5.625	1.4166E+01	-4.4582E-02	5.625	1.4554E+01	1.3388E-01
11.250	1.4158E+01	-4.3930E-02	11.250	1.4356E+01	4.1598E-02
16.875	1.4160E+01	-3.9054E-02	16.875	1.4091E+01	-6.0734E-02
22.500	1.4146E+01	-4.1511E-02	22.500	1.3879E+01	-1.2921E-01
28.125	1.4137E+01	-4.1347E-02	28.125	1.3706E+01	-1.7550E-01
33.750	1.4122E+01	-4.3526E-02	33.750	1.3646E+01	-1.8195E-01
39.375	1.4082E+01	-5.3126E-02	39.375	1.3638E+01	-1.7312E-01
45.000	1.4044E+01	-6.1418E-02	45.000	1.3603E+01	-1.7327E-01
50.625	1.4005E+01	-6.8978E-02	50.625	1.3510E+01	-1.8858E-01
56.250	1.3986E+01	-7.1267E-02	56.250	1.3445E+01	-1.9643E-01
61.875	1.3980E+01	-7.0001E-02	61.875	1.3369E+01	-2.0744E-01
67.500	1.3978E+01	-6.8403E-02	67.500	1.3008E+01	-2.8363E-01
73.125	1.3960E+01	-7.1099E-02	73.125	1.2564E+01	-3.7613E-01
78.750	1.3969E+01	-6.7865E-02	78.750	1.2525E+01	-3.7840E-01
84.375	1.3946E+01	-7.2553E-02	84.375	1.2508E+01	-3.7848E-01
90.000	1.3949E+01	-7.1658E-02	90.000	1.1919E+01	-5.0452E-01
95.625	1.3960E+01	-6.9183E-02	95.625	1.1616E+01	-5.7176E-01
101.250	1.3970E+01	-6.7557E-02	101.250	1.1551E+01	-5.9177E-01
106.875	1.3975E+01	-6.7563E-02	106.875	1.1396E+01	-6.3587E-01
112.500	1.3955E+01	-7.4074E-02	112.500	1.1247E+01	-6.8451E-01
118.125	1.3977E+01	-7.0867E-02	118.125	1.1010E+01	-7.6037E-01
123.750	1.3988E+01	-7.0567E-02	123.750	1.0758E+01	-8.4922E-01
129.375	1.4027E+01	-6.2937E-02	129.375	1.0064E+01	-1.0617E+00
135.000	1.4051E+01	-5.9333E-02	135.000	9.9662E+00	-1.1406E+00
140.625	1.4101E+01	-4.7495E-02	140.625	1.0506E+01	-1.0536E+00
146.250	1.4126E+01	-4.2114E-02	146.250	1.1025E+01	-9.6525E-01
151.875	1.4172E+01	-2.9243E-02	151.875	1.1624E+01	-8.4138E-01
157.500	1.4205E+01	-1.8664E-02	157.500	1.2201E+01	-7.0759E-01
163.125	1.4238E+01	-6.5774E-03	163.125	1.2900E+01	-5.0571E-01
168.750	1.4258E+01	1.6397E-03	168.750	1.3463E+01	-3.2201E-01
174.375	1.4286E+01	1.5914E-02	174.375	1.3927E+01	-1.4590E-01
180.000	1.4336E+01	4.5770E-02	180.000	1.4248E+01	-3.2459E-03
185.625	1.4344E+01	5.6277E-02	185.625	1.4548E+01	1.6030E-01
191.250	1.4368E+01	7.9638E-02	191.250	1.4760E+01	3.0682E-01
196.875	1.4375E+01	9.4828E-02	196.875	1.4896E+01	4.3475E-01
202.500	1.4369E+01	1.0185E-01	202.500	1.5044E+01	5.9888E-01
208.125	1.4371E+01	1.1751E-01	208.125	1.4974E+01	6.1283E-01
213.750	1.4367E+01	1.2927E-01	213.750	1.5038E+01	7.4945E-01
219.375	1.4340E+01	1.1181E-01	219.375	1.4926E+01	7.1996E-01
225.000	1.4321E+01	9.8300E-02	225.000	1.4843E+01	7.0615E-01
230.625	1.4315E+01	1.0007E-01	230.625	1.4770E+01	6.8918E-01
236.250	1.4304E+01	9.2224E-02	236.250	1.4657E+01	5.9537E-01
241.875	1.4280E+01	5.2072E-02	241.875	1.4605E+01	5.6734E-01
247.500	1.4257E+01	5.4013E-03	247.500	1.4513E+01	4.5340E-01
253.125	1.4234E+01	-4.9115E-02	253.125	1.4479E+01	4.1900E-01
258.750	1.4230E+01	-6.1514E-02	258.750	1.4408E+01	3.0107E-01
264.375	1.4218E+01	-9.6138E-02	264.375	1.4381E+01	2.5576E-01
270.000	1.4215E+01	-1.0426E-01	270.000	1.4363E+01	2.2243E-01
275.625	1.4212E+01	-1.1151E-01	275.625	1.4332E+01	1.5679E-01
281.250	1.4216E+01	-9.8022E-02	281.250	1.4332E+01	1.5314E-01
286.875	1.4200E+01	-1.3104E-01	286.875	1.4315E+01	1.1442E-01
292.500	1.4192E+01	-1.3888E-01	292.500	1.4303E+01	8.6104E-02
298.125	1.4188E+01	-1.3649E-01	298.125	1.4290E+01	5.7434E-02
303.750	1.4172E+01	-1.5217E-01	303.750	1.4312E+01	8.5497E-02
309.375	1.4157E+01	-1.6123E-01	309.375	1.4343E+01	1.1832E-01
315.000	1.4151E+01	-1.5086E-01	315.000	1.4391E+01	1.6403E-01
320.625	1.4139E+01	-1.4975E-01	320.625	1.4430E+01	1.8881E-01
326.250	1.4195E+01	-6.7566E-02	326.250	1.4491E+01	2.2681E-01
331.875	1.4155E+01	-1.0019E-01	331.875	1.4575E+01	2.7303E-01
337.500	1.4092E+01	-1.4391E-01	337.500	1.4636E+01	2.8987E-01
343.125	1.4179E+01	-5.8925E-02	343.125	1.4749E+01	3.3490E-01
348.750	1.4187E+01	-4.6982E-02	348.750	1.4932E+01	4.1063E-01
354.375	1.4200E+01	-3.3936E-02	354.375	1.4989E+01	4.0021E-01
360.000	1.4189E+01	-3.6193E-02	360.000	1.4701E+01	2.1995E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P682 x/C = 0.0700	BLADE #4	LOWER SURFACE r/R = 0.7300	CP	P683 x/C = 0.2000	BLADE #4	LOWER SURFACE r/R = 0.7300	CP
AZIMUTH	PSIA			AZIMUTH	PSIA		
0.000	1.4435E+01	8.8781E-02		0.000	1.4295E+01	2.0008E-02	
5.625	1.4304E+01	2.2120E-02		5.625	1.4260E+01	2.4765E-03	
11.250	1.4119E+01	-5.4994E-02		11.250	1.4196E+01	-2.3495E-02	
16.875	1.3925E+01	-1.2308E-01		16.875	1.4137E+01	-4.3798E-02	
22.500	1.3755E+01	-1.7194E-01		22.500	1.4095E+01	-5.4656E-02	
28.125	1.3608E+01	-2.0686E-01		28.125	1.4076E+01	-5.6844E-02	
33.750	1.3531E+01	-2.1604E-01		33.750	1.4080E+01	-5.2126E-02	
39.375	1.3499E+01	-2.1218E-01		39.375	1.4101E+01	-4.3005E-02	
45.000	1.3444E+01	-2.1554E-01		45.000	1.4106E+01	-3.9687E-02	
50.625	1.3366E+01	-2.2488E-01		50.625	1.4094E+01	-4.0541E-02	
56.250	1.3291E+01	-2.3400E-01		56.250	1.4115E+01	-3.3684E-02	
61.875	1.3243E+01	-2.3707E-01		61.875	1.4142E+01	-2.6144E-02	
67.500	1.3002E+01	-2.8498E-01		67.500	1.4107E+01	-3.3522E-02	
73.125	1.2734E+01	-3.3829E-01		73.125	1.4021E+01	-5.1768E-02	
78.750	1.2742E+01	-3.3093E-01		78.750	1.3955E+01	-6.5518E-02	
84.375	1.2648E+01	-3.4817E-01		84.375	1.3914E+01	-7.3755E-02	
90.000	1.2272E+01	-4.2824E-01		90.000	1.3801E+01	-9.7816E-02	
95.625	1.2088E+01	-4.6946E-01		95.625	1.3742E+01	-1.1101E-01	
101.250	1.2001E+01	-4.9321E-01		101.250	1.3756E+01	-1.0905E-01	
106.875	1.1918E+01	-5.1971E-01		106.875	1.3725E+01	-1.1768E-01	
112.500	1.1812E+01	-5.5593E-01		112.500	1.3691E+01	-1.2807E-01	
118.125	1.1657E+01	-6.0872E-01		118.125	1.3634E+01	-1.4520E-01	
123.750	1.1474E+01	-6.7516E-01		123.750	1.3566E+01	-1.6713E-01	
129.375	1.1064E+01	-8.0837E-01		129.375	1.3492E+01	-1.9314E-01	
135.000	1.1085E+01	-8.4311E-01		135.000	1.3547E+01	-1.8822E-01	
140.625	1.1491E+01	-7.7676E-01		140.625	1.3620E+01	-1.7831E-01	
146.250	1.1892E+01	-7.0625E-01		146.250	1.3705E+01	-1.6404E-01	
151.875	1.2344E+01	-6.1102E-01		151.875	1.3791E+01	-1.4825E-01	
157.500	1.2777E+01	-5.0883E-01		157.500	1.3907E+01	-1.1951E-01	
163.125	1.3184E+01	-3.9938E-01		163.125	1.4047E+01	-7.7501E-02	
168.750	1.3550E+01	-2.8677E-01		168.750	1.4159E+01	-3.8608E-02	
174.375	1.3852E+01	-1.7916E-01		174.375	1.4202E+01	-2.3435E-02	
180.000	1.4111E+01	-7.0103E-02		180.000	1.4257E+01	1.6921E-03	
185.625	1.4335E+01	4.3933E-02		185.625	1.4334E+01	4.3429E-02	
191.250	1.4523E+01	1.6304E-01		191.250	1.4401E+01	8.9346E-02	
196.875	1.4657E+01	2.7273E-01		196.875	1.4451E+01	1.3333E-01	
202.500	1.4745E+01	3.7245E-01		202.500	1.4471E+01	1.6439E-01	
208.125	1.4815E+01	4.7732E-01		208.125	1.4495E+01	2.0531E-01	
213.750	1.4806E+01	5.2752E-01		213.750	1.4488E+01	2.2342E-01	
219.375	1.4800E+01	5.8494E-01		219.375	1.4477E+01	2.3893E-01	
225.000	1.4761E+01	6.0794E-01		225.000	1.4438E+01	2.2015E-01	
230.625	1.4723E+01	6.2574E-01		230.625	1.4387E+01	1.7772E-01	
236.250	1.4667E+01	6.1043E-01		236.250	1.4377E+01	1.8194E-01	
241.875	1.4618E+01	5.8885E-01		241.875	1.4336E+01	1.3241E-01	
247.500	1.4552E+01	5.2166E-01		247.500	1.4295E+01	7.2327E-02	
253.125	1.4508E+01	4.7470E-01		253.125	1.4269E+01	2.7114E-02	
258.750	1.4477E+01	4.3637E-01		258.750	1.4227E+01	-5.2845E-02	
264.375	1.4445E+01	3.8459E-01		264.375	1.4224E+01	-6.0017E-02	
270.000	1.4417E+01	3.3287E-01		270.000	1.4200E+01	-1.0962E-01	
275.625	1.4394E+01	2.8213E-01		275.625	1.4196E+01	-1.1688E-01	
281.250	1.4379E+01	2.4537E-01		281.250	1.4196E+01	-1.1447E-01	
286.875	1.4377E+01	2.2979E-01		286.875	1.4200E+01	-1.0028E-01	
292.500	1.4354E+01	1.7395E-01		292.500	1.4181E+01	-1.2848E-01	
298.125	1.4336E+01	1.3199E-01		298.125	1.4144E+01	-1.7865E-01	
303.750	1.4312E+01	8.6125E-02		303.750	1.4128E+01	-1.8591E-01	
309.375	1.4309E+01	7.3458E-02		309.375	1.4138E+01	-1.5555E-01	
315.000	1.4318E+01	7.6161E-02		315.000	1.4141E+01	-1.3514E-01	
320.625	1.4330E+01	8.1585E-02		320.625	1.4154E+01	-1.0751E-01	
326.250	1.4380E+01	1.1998E-01		326.250	1.4202E+01	-4.9967E-02	
331.875	1.4409E+01	1.3175E-01		331.875	1.4220E+01	-2.8644E-02	
337.500	1.4467E+01	1.6175E-01		337.500	1.4272E+01	1.3308E-02	
343.125	1.4509E+01	1.7246E-01		343.125	1.4322E+01	4.5683E-02	
348.750	1.4663E+01	2.4784E-01		348.750	1.4415E+01	9.7720E-02	
354.375	1.4689E+01	2.3690E-01		354.375	1.4432E+01	9.7032E-02	
360.000	1.4435E+01	8.8791E-02		360.000	1.4295E+01	2.0010E-02	

Table 11 (Continued). TABULATED PRESSURE DATA

P684	BLADE #4	LOWER SURFACE	P685	BLADE #4	LOWER SURFACE
x/C = 0.3500		r/R = 0.7300	x/C = 0.5000		r/R = 0.7300
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.4022E+01	-1.1406E-01	0.000	1.3859E+01	-1.9441E-01
5.625	1.3973E+01	-1.2537E-01	5.625	1.3805E+01	-2.0020E-01
11.250	1.3907E+01	-1.4115E-01	11.250	1.3748E+01	-2.0619E-01
16.875	1.3859E+01	-1.4738E-01	16.875	1.3688E+01	-2.1131E-01
22.500	1.3813E+01	-1.5199E-01	22.500	1.3631E+01	-2.1475E-01
28.125	1.3771E+01	-1.5473E-01	28.125	1.3573E+01	-2.1787E-01
33.750	1.3759E+01	-1.4809E-01	33.750	1.3539E+01	-2.1380E-01
39.375	1.3751E+01	-1.4151E-01	39.375	1.3505E+01	-2.1051E-01
45.000	1.3734E+01	-1.3828E-01	45.000	1.3468E+01	-2.0917E-01
50.625	1.3715E+01	-1.3662E-01	50.625	1.3425E+01	-2.1015E-01
56.250	1.3671E+01	-1.4153E-01	56.250	1.3356E+01	-2.1806E-01
61.875	1.3633E+01	-1.4562E-01	61.875	1.3297E+01	-2.2425E-01
67.500	1.3535E+01	-1.6366E-01	67.500	1.3212E+01	-2.3716E-01
73.125	1.3436E+01	-1.8214E-01	73.125	1.3145E+01	-2.4681E-01
78.750	1.3426E+01	-1.8118E-01	78.750	1.3147E+01	-2.4237E-01
84.375	1.3370E+01	-1.9162E-01	84.375	1.3105E+01	-2.4901E-01
90.000	1.3249E+01	-2.1722E-01	90.000	1.2999E+01	-2.7129E-01
95.625	1.3218E+01	-2.2458E-01	95.625	1.2988E+01	-2.7436E-01
101.250	1.3211E+01	-2.2842E-01	101.250	1.2976E+01	-2.7970E-01
106.875	1.3176E+01	-2.3981E-01	106.875	1.2941E+01	-2.9212E-01
112.500	1.3147E+01	-2.5192E-01	112.500	1.2924E+01	-3.0283E-01
118.125	1.3115E+01	-2.6686E-01	118.125	1.2915E+01	-3.1395E-01
123.750	1.3098E+01	-2.8075E-01	123.750	1.2929E+01	-3.2176E-01
129.375	1.3118E+01	-2.8777E-01	129.375	1.2974E+01	-3.2426E-01
135.000	1.3187E+01	-2.8385E-01	135.000	1.3067E+01	-3.1580E-01
140.625	1.3278E+01	-2.7443E-01	140.625	1.3154E+01	-3.0936E-01
146.250	1.3381E+01	-2.6101E-01	146.250	1.3264E+01	-2.9604E-01
151.875	1.3499E+01	-2.4149E-01	151.875	1.3368E+01	-2.8339E-01
157.500	1.3615E+01	-2.2035E-01	157.500	1.3488E+01	-2.6401E-01
163.125	1.3740E+01	-1.9192E-01	163.125	1.3603E+01	-2.4307E-01
168.750	1.3843E+01	-1.6717E-01	168.750	1.3705E+01	-2.2365E-01
174.375	1.3946E+01	-1.3761E-01	174.375	1.3786E+01	-2.0886E-01
180.000	1.4055E+01	-9.7874E-02	180.000	1.3894E+01	-1.7713E-01
185.625	1.4125E+01	-7.0312E-02	185.625	1.3975E+01	-1.5219E-01
191.250	1.4190E+01	-3.9071E-02	191.250	1.4039E+01	-1.3060E-01
196.875	1.4240E+01	-9.5986E-03	196.875	1.4093E+01	-1.0925E-01
202.500	1.4274E+01	1.5483E-02	202.500	1.4125E+01	-9.7583E-02
208.125	1.4285E+01	2.6711E-02	208.125	1.4135E+01	-1.0109E-01
213.750	1.4282E+01	2.6929E-02	213.750	1.4144E+01	-1.0508E-01
219.375	1.4270E+01	1.7027E-02	219.375	1.4136E+01	-1.2618E-01
225.000	1.4249E+01	-5.8734E-03	225.000	1.4120E+01	-1.6018E-01
230.625	1.4232E+01	-2.9837E-02	230.625	1.4101E+01	-2.0401E-01
236.250	1.4197E+01	-8.4170E-02	236.250	1.4073E+01	-2.6728E-01
241.875	1.4173E+01	-1.3187E-01	241.875	1.4047E+01	-3.3501E-01
247.500	1.4140E+01	-1.9943E-01	247.500	1.4019E+01	-4.1219E-01
253.125	1.4111E+01	-2.6646E-01	253.125	1.3999E+01	-4.7561E-01
258.750	1.4092E+01	-3.1798E-01	258.750	1.3980E+01	-5.3681E-01
264.375	1.4073E+01	-3.6588E-01	264.375	1.3972E+01	-5.6894E-01
270.000	1.4064E+01	-3.8763E-01	270.000	1.3960E+01	-5.9836E-01
275.625	1.4051E+01	-4.0974E-01	275.625	1.3959E+01	-5.9561E-01
281.250	1.4054E+01	-3.9161E-01	281.250	1.3957E+01	-5.8247E-01
286.875	1.4045E+01	-3.8987E-01	286.875	1.3959E+01	-5.5079E-01
292.500	1.4040E+01	-3.7483E-01	292.500	1.3956E+01	-5.2136E-01
298.125	1.4010E+01	-3.9503E-01	298.125	1.3939E+01	-5.0883E-01
303.750	1.3981E+01	-4.0349E-01	303.750	1.3907E+01	-5.1313E-01
309.375	1.3957E+01	-3.9694E-01	309.375	1.3882E+01	-4.9769E-01
315.000	1.3962E+01	-3.5040E-01	315.000	1.3873E+01	-4.5763E-01
320.625	1.3974E+01	-2.9979E-01	320.625	1.3875E+01	-4.0635E-01
326.250	1.3999E+01	-2.4417E-01	326.250	1.3892E+01	-3.4610E-01
331.875	1.4018E+01	-2.0106E-01	331.875	1.3897E+01	-3.0369E-01
337.500	1.4042E+01	-1.6065E-01	337.500	1.3900E+01	-2.6877E-01
343.125	1.4066E+01	-1.2761E-01	343.125	1.3910E+01	-2.3326E-01
348.750	1.4121E+01	-8.0573E-02	348.750	1.3941E+01	-1.8952E-01
354.375	1.4122E+01	-7.1795E-02	354.375	1.3935E+01	-1.7389E-01
360.000	1.4022E+01	-1.1408E-01	360.000	1.3859E+01	-1.9443E-01

Table 11 (Continued). TABULATED PRESSURE DATA

P686 x/C = 0.8200	BLADE #4	LOWER SURFACE r/R = 0.7300	CP	P687 x/C = 0.0320	BLADE #4	LOWER SURFACE r/R = 0.8050	CP
AZIMUTH	PSIA			AZIMUTH	PSIA		
0.000	1.3952E+01	-1.4863E-01		0.000	1.4962E+01	2.8639E-01	
5.625	1.3951E+01	-1.3530E-01		5.625	1.4708E+01	1.6811E-01	
11.250	1.3937E+01	-1.2921E-01		11.250	1.4455E+01	6.8480E-02	
16.875	1.3942E+01	-1.1648E-01		16.875	1.4077E+01	-5.5688E-02	
22.500	1.3913E+01	-1.1750E-01		22.500	1.3785E+01	-1.3713E-01	
28.125	1.3863E+01	-1.2514E-01		28.125	1.3529E+01	-1.9776E-01	
33.750	1.3793E+01	-1.3790E-01		33.750	1.3422E+01	-2.1309E-01	
39.375	1.3764E+01	-1.3766E-01		39.375	1.3358E+01	-2.1702E-01	
45.000	1.3736E+01	-1.3796E-01		45.000	1.3295E+01	-2.2048E-01	
50.625	1.3718E+01	-1.3591E-01		50.625	1.3255E+01	-2.1964E-01	
56.250	1.3689E+01	-1.3728E-01		56.250	1.3253E+01	-2.1160E-01	
61.875	1.3683E+01	-1.3389E-01		61.875	1.3221E+01	-2.1116E-01	
67.500	1.3656E+01	-1.3624E-01		67.500	1.2865E+01	-2.7615E-01	
73.125	1.3644E+01	-1.3570E-01		73.125	1.2826E+01	-2.7806E-01	
78.750	1.3660E+01	-1.3009E-01		78.750	1.2921E+01	-2.5561E-01	
84.375	1.3663E+01	-1.2805E-01		84.375	1.2438E+01	-3.4512E-01	
90.000	1.3612E+01	-1.3878E-01		90.000	1.1924E+01	-4.4141E-01	
95.625	1.3647E+01	-1.3165E-01		95.625	1.1527E+01	-5.1804E-01	
101.250	1.3639E+01	-1.3472E-01		101.250	1.0898E+01	-6.4349E-01	
106.875	1.3608E+01	-1.4365E-01		106.875	1.0686E+01	-6.9459E-01	
112.500	1.3635E+01	-1.4080E-01		112.500	9.8019E+00	-8.8527E-01	
118.125	1.3634E+01	-1.4538E-01		118.125	7.6467E+00	-1.3502E+00	
123.750	1.3651E+01	-1.4647E-01		123.750	7.0244E+00	-1.5275E+00	
129.375	1.3692E+01	-1.4250E-01		129.375	7.1896E+00	-1.5525E+00	
135.000	1.3757E+01	-1.3231E-01		135.000	7.6958E+00	-1.5081E+00	
140.625	1.3773E+01	-1.3520E-01		140.625	8.5742E+00	-1.3748E+00	
146.250	1.3822E+01	-1.2908E-01		146.250	9.3322E+00	-1.2612E+00	
151.875	1.3861E+01	-1.2568E-01		151.875	1.0177E+01	-1.1125E+00	
157.500	1.3925E+01	-1.1326E-01		157.500	1.0986E+01	-9.5496E-01	
163.125	1.3946E+01	-1.1496E-01		163.125	1.1776E+01	-7.7933E-01	
168.750	1.3976E+01	-1.1317E-01		168.750	1.2514E+01	-5.9229E-01	
174.375	1.4026E+01	-1.0181E-01		174.375	1.3135E+01	-4.1437E-01	
180.000	1.4064E+01	-9.3380E-02		180.000	1.3650E+01	-2.4434E-01	
185.625	1.4103E+01	-8.2284E-02		185.625	1.4084E+01	-7.5567E-02	
191.250	1.4120E+01	-8.1168E-02		191.250	1.4440E+01	9.0802E-02	
196.875	1.4152E+01	-6.9017E-02		196.875	1.4706E+01	2.4352E-01	
202.500	1.4163E+01	-6.9143E-02		202.500	1.4908E+01	3.9026E-01	
208.125	1.4150E+01	-8.8388E-02		208.125	1.5033E+01	5.1445E-01	
213.750	1.4152E+01	-9.7445E-02		213.750	1.5095E+01	6.1473E-01	
219.375	1.4139E+01	-1.2291E-01		219.375	1.5087E+01	6.7307E-01	
225.000	1.4127E+01	-1.5266E-01		225.000	1.5054E+01	7.1201E-01	
230.625	1.4141E+01	-1.5057E-01		230.625	1.4979E+01	7.0814E-01	
236.250	1.4106E+01	-2.1950E-01		236.250	1.4902E+01	6.8981E-01	
241.875	1.4078E+01	-2.8496E-01		241.875	1.4821E+01	6.5164E-01	
247.500	1.4067E+01	-3.2738E-01		247.500	1.4750E+01	6.0932E-01	
253.125	1.4043E+01	-3.9460E-01		253.125	1.4683E+01	5.5603E-01	
258.750	1.4041E+01	-4.1705E-01		258.750	1.4631E+01	5.0811E-01	
264.375	1.4026E+01	-4.5902E-01		264.375	1.4590E+01	4.6392E-01	
270.000	1.4038E+01	-4.4090E-01		270.000	1.4560E+01	4.2653E-01	
275.625	1.4012E+01	-4.8769E-01		275.625	1.4537E+01	3.9125E-01	
281.250	1.4018E+01	-4.6260E-01		281.250	1.4527E+01	3.6806E-01	
286.875	1.4016E+01	-4.4388E-01		286.875	1.4521E+01	3.4548E-01	
292.500	1.4002E+01	-4.4134E-01		292.500	1.4506E+01	3.0988E-01	
298.125	1.3987E+01	-4.3135E-01		298.125	1.4488E+01	2.6843E-01	
303.750	1.3979E+01	-4.0558E-01		303.750	1.4488E+01	2.4840E-01	
309.375	1.3963E+01	-3.8849E-01		309.375	1.4531E+01	2.7049E-01	
315.000	1.3958E+01	-3.5570E-01		315.000	1.4577E+01	2.8734E-01	
320.625	1.3949E+01	-3.2745E-01		320.625	1.4645E+01	3.1570E-01	
326.250	1.3973E+01	-2.6856E-01		326.250	1.4708E+01	3.3154E-01	
331.875	1.3978E+01	-2.3509E-01		331.875	1.4795E+01	3.5742E-01	
337.500	1.3963E+01	-2.2066E-01		337.500	1.4849E+01	3.5494E-01	
343.125	1.3970E+01	-1.9228E-01		343.125	1.4942E+01	3.7067E-01	
348.750	1.3992E+01	-1.5906E-01		348.750	1.4990E+01	3.5921E-01	
354.375	1.3953E+01	-1.6416E-01		354.375	1.5094E+01	3.7254E-01	
360.000	1.3952E+01	-1.4865E-01		360.000	1.4962E+01	2.8642E-01	

Table 11 (Continued). TABULATED PRESSURE DATA

P688 x/C = 0.0700	BLADE #4 AZIMUTH	LOWER SURFACE r/R = 0.8050 PSIA CP	P689 x/C = 0.2000	BLADE #4 AZIMUTH	LOWER SURFACE r/R = 0.8050 PSIA CP
0.000	1.4546E+01	1.1789E-01	0.000	1.4665E+01	1.6623E-01
5.625	1.4333E+01	2.9219E-02	5.625	1.4565E+01	1.1520E-01
11.250	1.4161E+01	-3.1752E-02	11.250	1.4483E+01	7.7773E-02
16.875	1.3899E+01	-1.1157E-01	16.875	1.4382E+01	4.0365E-02
22.500	1.3714E+01	-1.5775E-01	22.500	1.4315E+01	1.7878E-02
28.125	1.3530E+01	-1.9772E-01	28.125	1.4246E+01	-2.1682E-03
33.750	1.3439E+01	-2.0876E-01	33.750	1.4237E+01	-4.4588E-03
39.375	1.3384E+01	-2.1064E-01	39.375	1.4223E+01	-7.4739E-03
45.000	1.3340E+01	-2.1008E-01	45.000	1.4228E+01	-6.0449E-03
50.625	1.3285E+01	-2.1303E-01	50.625	1.4225E+01	-6.3755E-03
56.250	1.3273E+01	-2.0728E-01	56.250	1.4252E+01	-5.2892E-04
61.875	1.3234E+01	-2.0841E-01	61.875	1.4237E+01	-3.4182E-03
67.500	1.3034E+01	-2.4255E-01	67.500	1.4137E+01	-2.3221E-02
73.125	1.3028E+01	-2.3865E-01	73.125	1.4082E+01	-3.3547E-02
78.750	1.3043E+01	-2.3215E-01	78.750	1.4087E+01	-3.1981E-02
84.375	1.2726E+01	-2.9024E-01	84.375	1.3910E+01	-6.5357E-02
90.000	1.2398E+01	-3.5149E-01	90.000	1.3756E+01	-9.4291E-02
95.625	1.2121E+01	-4.0529E-01	95.625	1.3675E+01	-1.1010E-01
101.250	1.1760E+01	-4.7809E-01	101.250	1.3547E+01	-1.3550E-01
106.875	1.1566E+01	-5.2327E-01	106.875	1.3386E+01	-1.6900E-01
112.500	1.0894E+01	-6.6809E-01	112.500	1.3105E+01	-2.2847E-01
118.125	9.2889E+00	-1.0146E+00	118.125	1.2950E+01	-2.6639E-01
123.750	8.4806E+00	-1.2198E+00	123.750	1.2988E+01	-2.6739E-01
129.375	9.2383E+00	-1.1023E+00	129.375	1.3015E+01	-2.7236E-01
135.000	1.0530E+01	-8.5626E-01	135.000	1.3114E+01	-2.6212E-01
140.625	1.0974E+01	-7.9392E-01	140.625	1.3232E+01	-2.4743E-01
146.250	1.1023E+01	-8.2797E-01	146.250	1.3375E+01	-2.2517E-01
151.875	1.1450E+01	-7.6504E-01	151.875	1.3550E+01	-1.9220E-01
157.500	1.2009E+01	-6.5608E-01	157.500	1.3727E+01	-1.5403E-01
163.125	1.2511E+01	-5.4822E-01	163.125	1.3926E+01	-1.0321E-01
168.750	1.2961E+01	-4.4008E-01	168.750	1.4101E+01	-5.2160E-02
174.375	1.3340E+01	-3.3852E-01	174.375	1.4249E+01	-2.0451E-03
180.000	1.3667E+01	-2.3759E-01	180.000	1.4384E+01	5.2517E-02
185.625	1.3954E+01	-1.3311E-01	185.625	1.4516E+01	1.1602E-01
191.250	1.4201E+01	-2.6135E-02	191.250	1.4628E+01	1.8282E-01
196.875	1.4399E+01	7.8237E-02	196.875	1.4709E+01	2.4517E-01
202.500	1.4559E+01	1.8194E-01	202.500	1.4783E+01	3.1516E-01
208.125	1.4668E+01	2.7320E-01	208.125	1.4833E+01	3.8221E-01
213.750	1.4743E+01	3.5732E-01	213.750	1.4856E+01	4.4008E-01
219.375	1.4773E+01	4.1925E-01	219.375	1.4866E+01	4.9476E-01
225.000	1.4756E+01	4.4730E-01	225.000	1.4860E+01	5.3996E-01
230.625	1.4730E+01	4.6524E-01	230.625	1.4832E+01	5.6413E-01
236.250	1.4696E+01	4.6978E-01	236.250	1.4804E+01	5.8529E-01
241.875	1.4648E+01	4.5304E-01	241.875	1.4765E+01	5.8687E-01
247.500	1.4596E+01	4.1948E-01	247.500	1.4730E+01	5.8415E-01
253.125	1.4540E+01	3.7060E-01	253.125	1.4691E+01	5.6636E-01
258.750	1.4517E+01	3.5387E-01	258.750	1.4668E+01	5.5861E-01
264.375	1.4480E+01	3.1231E-01	264.375	1.4647E+01	5.4311E-01
270.000	1.4460E+01	2.8646E-01	270.000	1.4632E+01	5.2626E-01
275.625	1.4445E+01	2.6408E-01	275.625	1.4622E+01	5.0797E-01
281.250	1.4442E+01	2.5378E-01	281.250	1.4627E+01	5.0242E-01
286.875	1.4449E+01	2.5263E-01	286.875	1.4632E+01	4.8994E-01
292.500	1.4438E+01	2.2581E-01	292.500	1.4622E+01	4.5176E-01
298.125	1.4401E+01	1.6827E-01	298.125	1.4587E+01	3.8318E-01
303.750	1.4344E+01	9.6031E-02	303.750	1.4532E+01	2.9531E-01
309.375	1.4347E+01	9.1105E-02	309.375	1.4514E+01	2.5374E-01
315.000	1.4349E+01	8.4684E-02	315.000	1.4525E+01	2.4096E-01
320.625	1.4394E+01	1.1311E-01	320.625	1.4556E+01	2.4374E-01
326.250	1.4431E+01	1.2950E-01	326.250	1.4580E+01	2.3828E-01
331.875	1.4481E+01	1.4953E-01	331.875	1.4611E+01	2.3566E-01
337.500	1.4507E+01	1.5080E-01	337.500	1.4636E+01	2.2775E-01
343.125	1.4563E+01	1.6650E-01	343.125	1.4665E+01	2.2183E-01
348.750	1.4591E+01	1.6473E-01	348.750	1.4692E+01	2.1399E-01
354.375	1.4660E+01	1.7985E-01	354.375	1.4748E+01	2.1897E-01
360.000	1.4546E+01	1.1791E-01	360.000	1.4665E+01	1.6625E-01

Table 11 (Concluded). TABULATED PRESSURE DATA

P690	BLADE #4 X/C = 0.3500	LOWER SURFACE r/R = 0.8050	P692	BLADE #4 X/C = 0.8200	LOWER SURFACE r/R = 0.8050
AZIMUTH	PSIA	CP	AZIMUTH	PSIA	CP
0.000	1.4163E+01	-3.6936E-02	0.000	1.3857E+01	-1.6065E-01
5.625	1.4066E+01	-6.9754E-02	5.625	1.3818E+01	-1.6143E-01
11.250	1.4009E+01	-8.3374E-02	11.250	1.3798E+01	-1.5516E-01
16.875	1.3918E+01	-1.0584E-01	16.875	1.3798E+01	-1.4342E-01
22.500	1.3861E+01	-1.1501E-01	22.500	1.3782E+01	-1.3804E-01
28.125	1.3796E+01	-1.2497E-01	28.125	1.3736E+01	-1.4144E-01
33.750	1.3772E+01	-1.2352E-01	33.750	1.3689E+01	-1.4476E-01
39.375	1.3741E+01	-1.2423E-01	39.375	1.3664E+01	-1.4279E-01
45.000	1.3709E+01	-1.2540E-01	45.000	1.3638E+01	-1.4177E-01
50.625	1.3687E+01	-1.2457E-01	50.625	1.3611E+01	-1.4131E-01
56.250	1.3704E+01	-1.1615E-01	56.250	1.3568E+01	-1.4497E-01
61.875	1.3700E+01	-1.1322E-01	61.875	1.3534E+01	-1.4709E-01
67.500	1.3609E+01	-1.2824E-01	67.500	1.3504E+01	-1.4907E-01
73.125	1.3542E+01	-1.3857E-01	73.125	1.3512E+01	-1.4438E-01
78.750	1.3527E+01	-1.3948E-01	78.750	1.3520E+01	-1.4066E-01
84.375	1.3371E+01	-1.6785E-01	84.375	1.3448E+01	-1.5309E-01
90.000	1.3245E+01	-1.9103E-01	90.000	1.3443E+01	-1.5354E-01
95.625	1.3177E+01	-2.0470E-01	95.625	1.3437E+01	-1.5520E-01
101.250	1.3072E+01	-2.2670E-01	101.250	1.3403E+01	-1.6324E-01
106.875	1.2960E+01	-2.5191E-01	106.875	1.3404E+01	-1.6553E-01
112.500	1.2823E+01	-2.8465E-01	112.500	1.3403E+01	-1.6929E-01
118.125	1.2788E+01	-2.9969E-01	118.125	1.3439E+01	-1.6649E-01
123.750	1.2842E+01	-2.9845E-01	123.750	1.3524E+01	-1.5431E-01
129.375	1.2898E+01	-2.9811E-01	129.375	1.3539E+01	-1.5720E-01
135.000	1.2990E+01	-2.9059E-01	135.000	1.3594E+01	-1.5189E-01
140.625	1.3094E+01	-2.8068E-01	140.625	1.3625E+01	-1.5229E-01
146.250	1.3213E+01	-2.6671E-01	146.250	1.3678E+01	-1.4768E-01
151.875	1.3351E+01	-2.4654E-01	151.875	1.3709E+01	-1.4863E-01
157.500	1.3484E+01	-2.2489E-01	157.500	1.3755E+01	-1.4576E-01
163.125	1.3633E+01	-1.9547E-01	163.125	1.3806E+01	-1.4084E-01
168.750	1.3759E+01	-1.6857E-01	168.750	1.3849E+01	-1.3798E-01
174.375	1.3888E+01	-1.3566E-01	174.375	1.3892E+01	-1.3415E-01
180.000	1.3988E+01	-1.0765E-01	180.000	1.3924E+01	-1.3336E-01
185.625	1.4091E+01	-7.2526E-02	185.625	1.3965E+01	-1.2833E-01
191.250	1.4187E+01	-3.2838E-02	191.250	1.3995E+01	-1.2676E-01
196.875	1.4268E+01	7.6081E-03	196.875	1.4030E+01	-1.2068E-01
202.500	1.4328E+01	4.3909E-02	202.500	1.4041E+01	-1.2699E-01
208.125	1.4373E+01	7.8739E-02	208.125	1.4073E+01	-1.1940E-01
213.750	1.4394E+01	1.0258E-01	213.750	1.4065E+01	-1.3800E-01
219.375	1.4396E+01	1.1441E-01	219.375	1.4064E+01	-1.5322E-01
225.000	1.4393E+01	1.2400E-01	225.000	1.4061E+01	-1.7187E-01
230.625	1.4377E+01	1.2047E-01	230.625	1.4047E+01	-2.0230E-01
236.250	1.4353E+01	1.0546E-01	236.250	1.4045E+01	-2.2295E-01
241.875	1.4325E+01	8.2043E-02	241.875	1.4005E+01	-2.8573E-01
247.500	1.4293E+01	4.7226E-02	247.500	1.4006E+01	-3.0420E-01
253.125	1.4259E+01	6.5287E-03	253.125	1.3967E+01	-3.7216E-01
258.750	1.4247E+01	-9.2709E-03	258.750	1.3965E+01	-3.9054E-01
264.375	1.4230E+01	-3.3617E-02	264.375	1.3942E+01	-4.3122E-01
270.000	1.4218E+01	-5.0829E-02	270.000	1.3929E+01	-4.5366E-01
275.625	1.4210E+01	-6.0400E-02	275.625	1.3922E+01	-4.5886E-01
281.250	1.4223E+01	-4.2198E-02	281.250	1.3913E+01	-4.6068E-01
286.875	1.4223E+01	-4.0275E-02	286.875	1.3922E+01	-4.3087E-01
292.500	1.4221E+01	-4.1175E-02	292.500	1.3916E+01	-4.1538E-01
298.125	1.4196E+01	-6.6900E-02	298.125	1.3897E+01	-4.1072E-01
303.750	1.4135E+01	-1.2707E-01	303.750	1.3858E+01	-4.2128E-01
309.375	1.4109E+01	-1.4177E-01	309.375	1.3834E+01	-4.1041E-01
315.000	1.4109E+01	-1.2938E-01	315.000	1.3844E+01	-3.6571E-01
320.625	1.4128E+01	-1.0198E-01	320.625	1.3855E+01	-3.2251E-01
326.250	1.4148E+01	-7.7896E-02	326.250	1.3870E+01	-2.8109E-01
331.875	1.4162E+01	-6.1014E-02	331.875	1.3881E+01	-2.4635E-01
337.500	1.4168E+01	-5.1426E-02	337.500	1.3878E+01	-2.2427E-01
343.125	1.4186E+01	-3.6559E-02	343.125	1.3882E+01	-2.0040E-01
348.750	1.4196E+01	-2.8370E-02	348.750	1.3885E+01	-1.8003E-01
354.375	1.4229E+01	-1.0992E-02	354.375	1.3888E+01	-1.6231E-01
360.000	1.4163E+01	-3.6939E-02	360.000	1.3857E+01	-1.6066E-01

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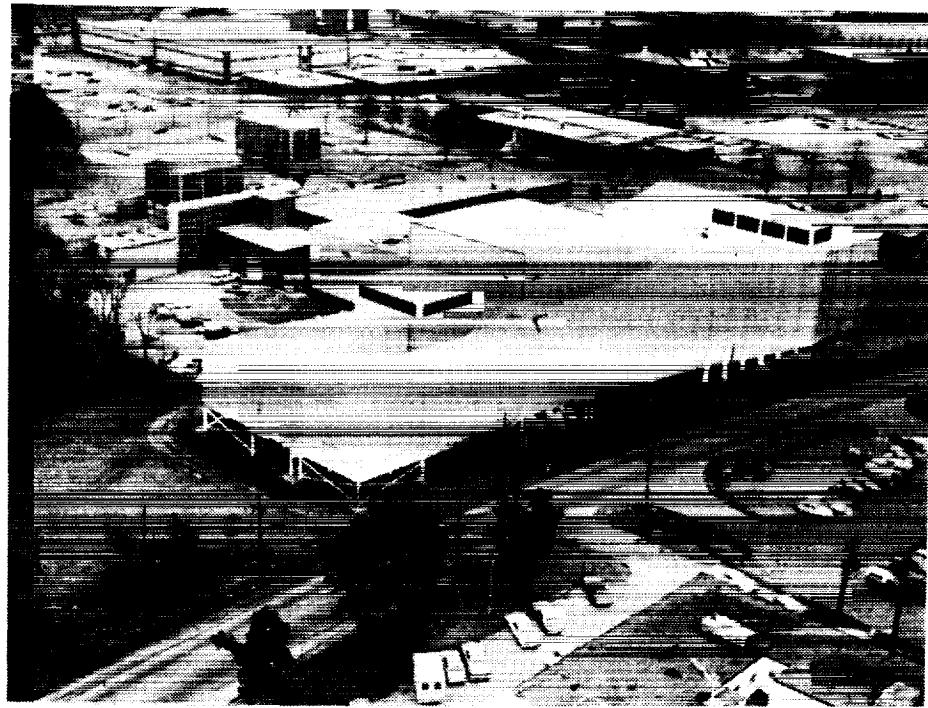


Figure 1. NASA Langley 14- x 22-Subsonic Wind Tunnel.

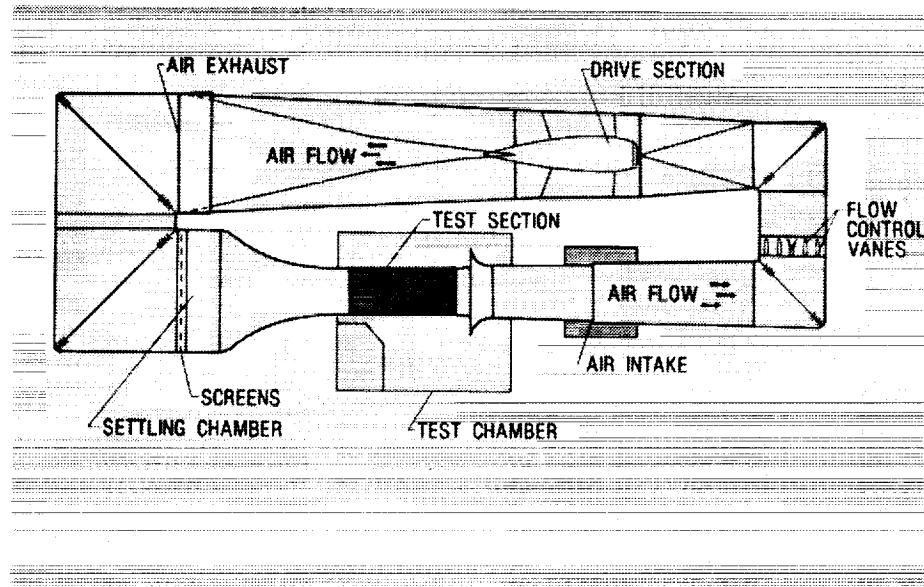


Figure 2. Schematic View of Wind Tunnel.

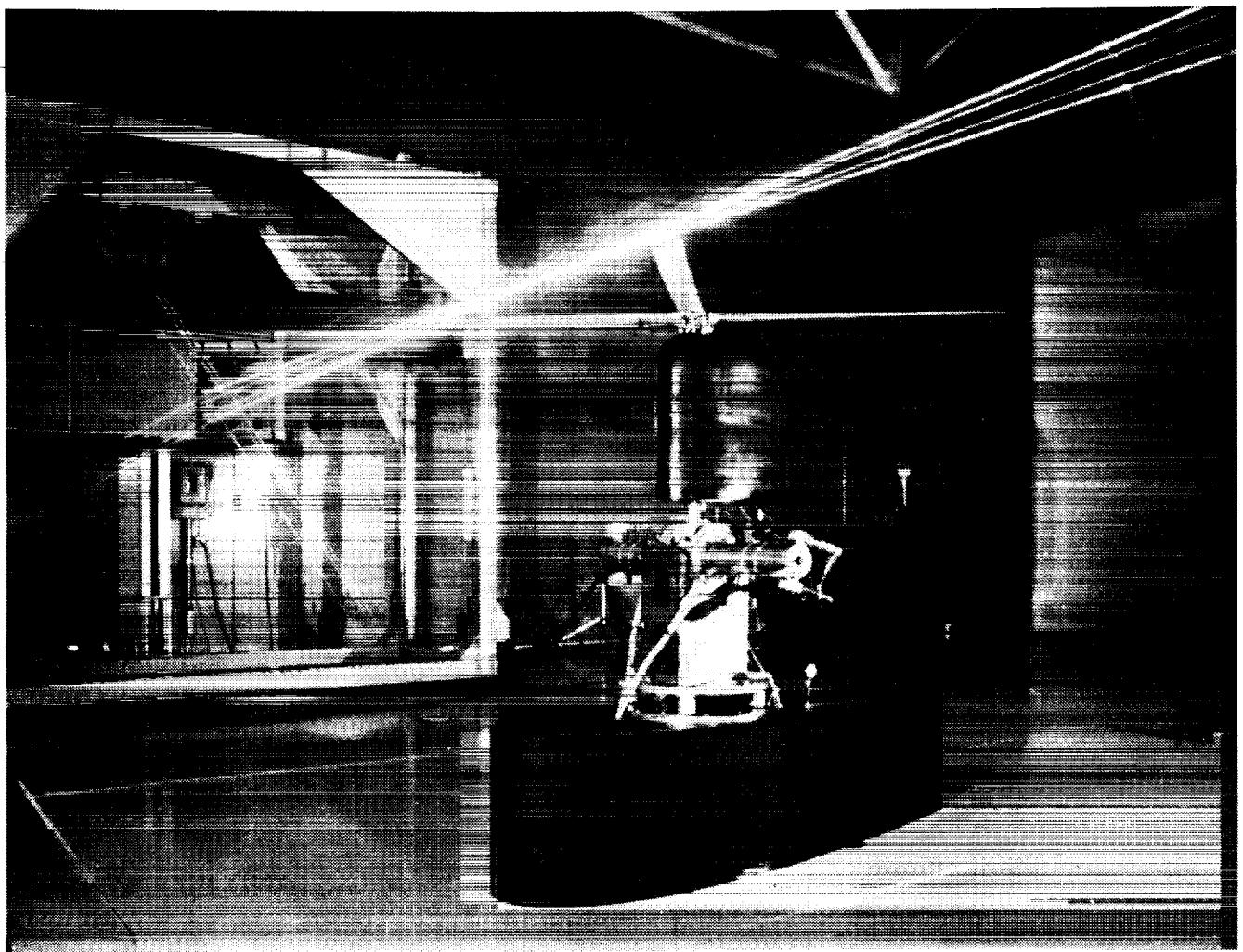


Figure 3. PFM Test Stand and ALR Installed in Wind Tunnel Test Section with the LV and traversing Platform in the background.

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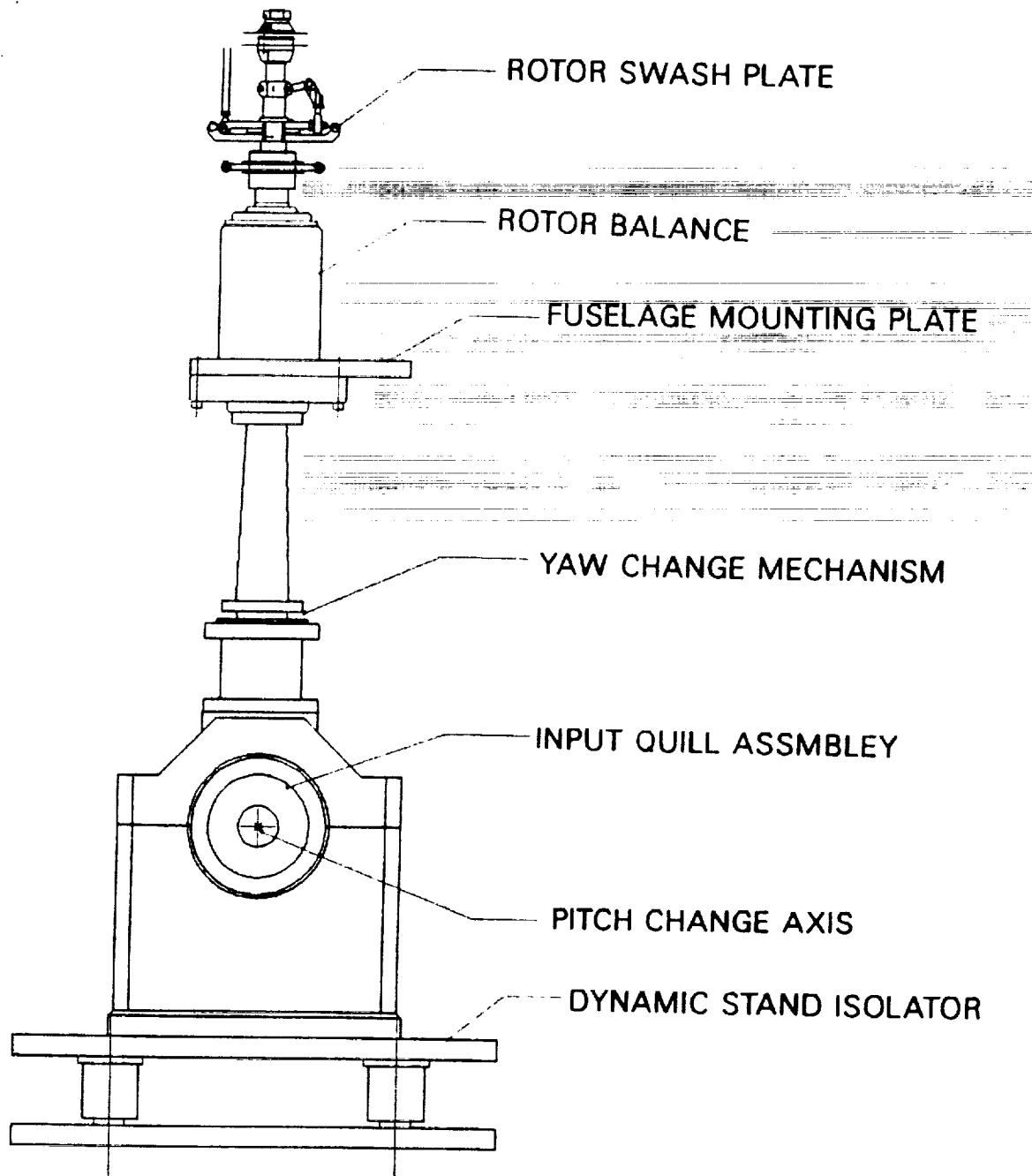


Figure 4. BHTI Powered Force Model (PFM).

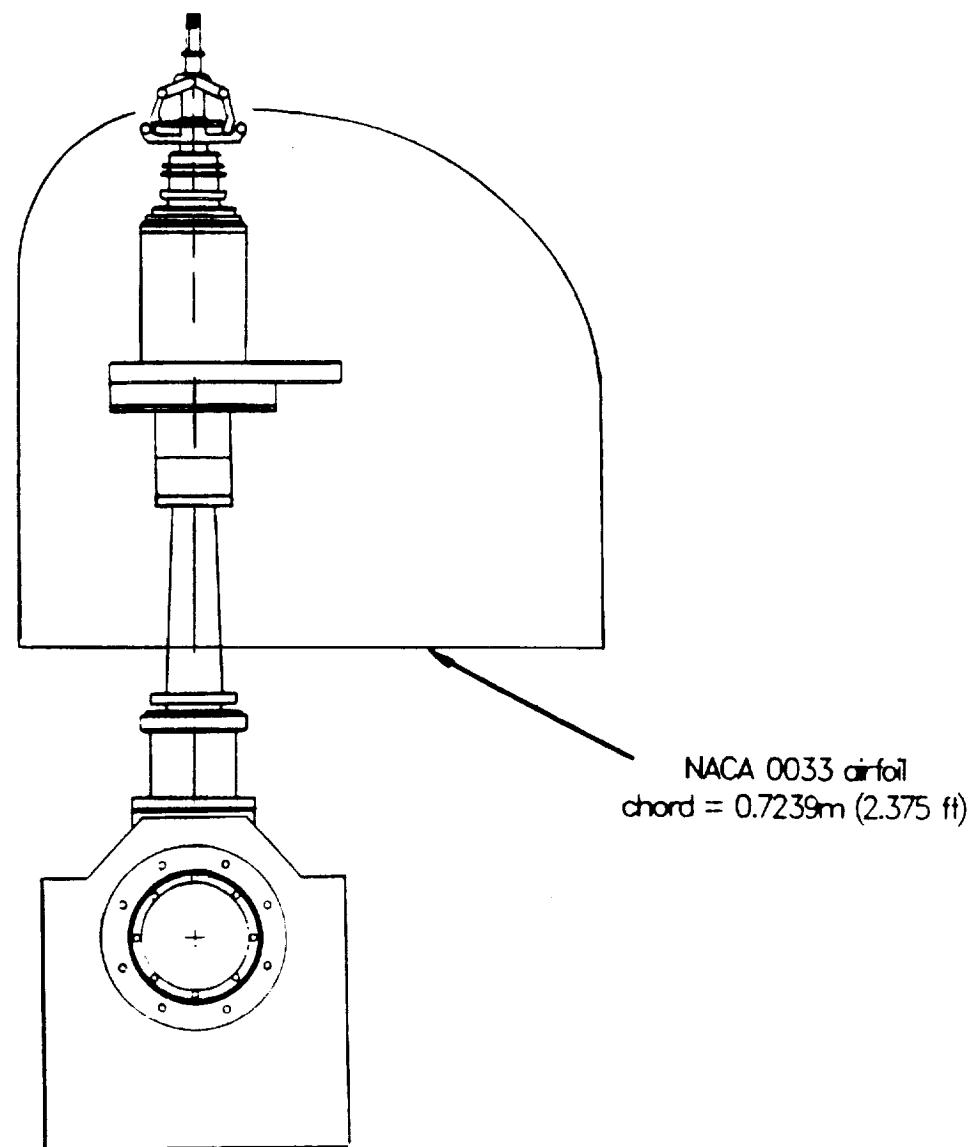


Figure 5. PFM Rotor Test Stand Fairing.

ALR ROTOR BLADE TWIST DISTRIBUTION

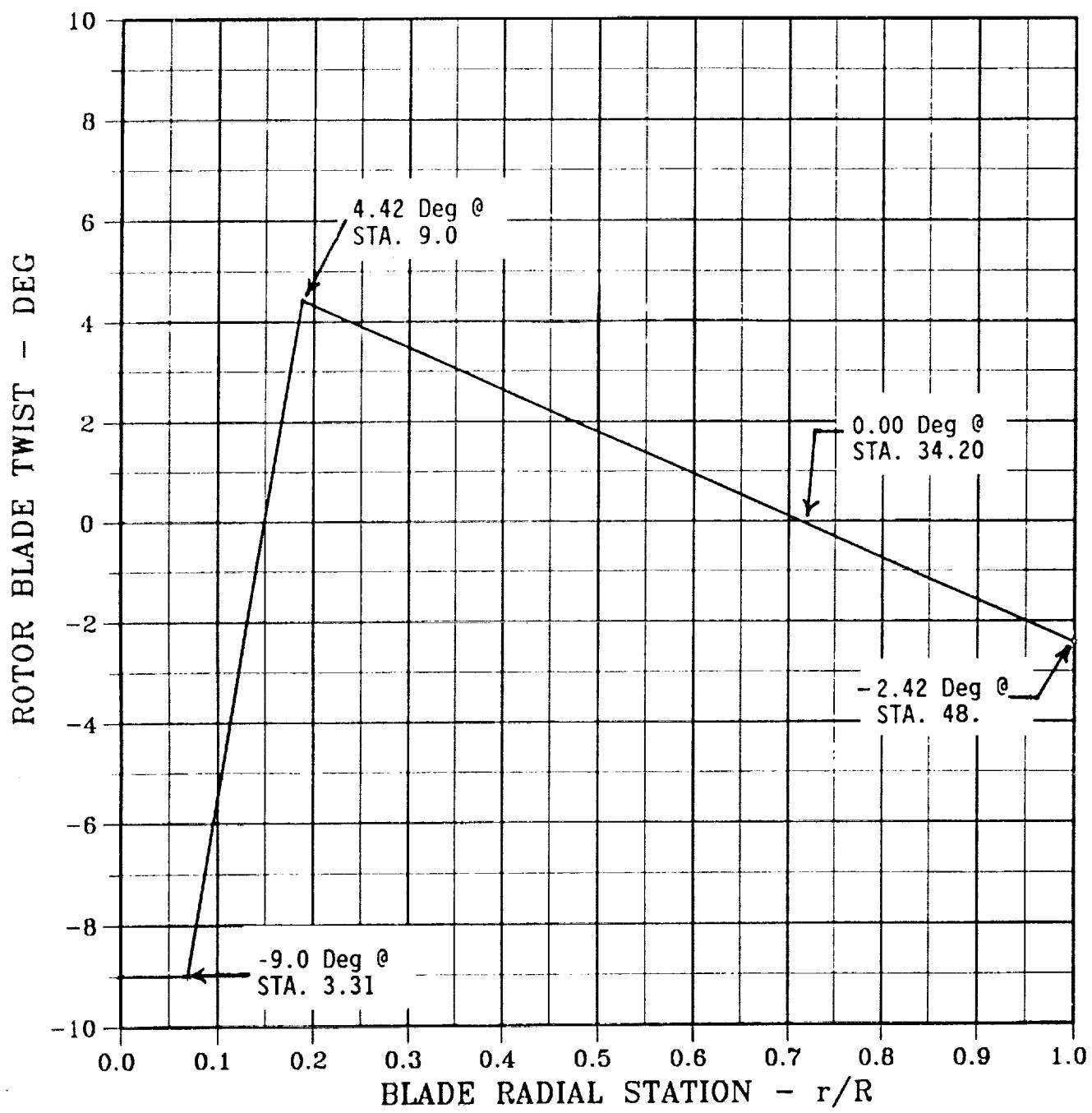


Figure 6. ALR Rotor Blade Twist Characteristics.

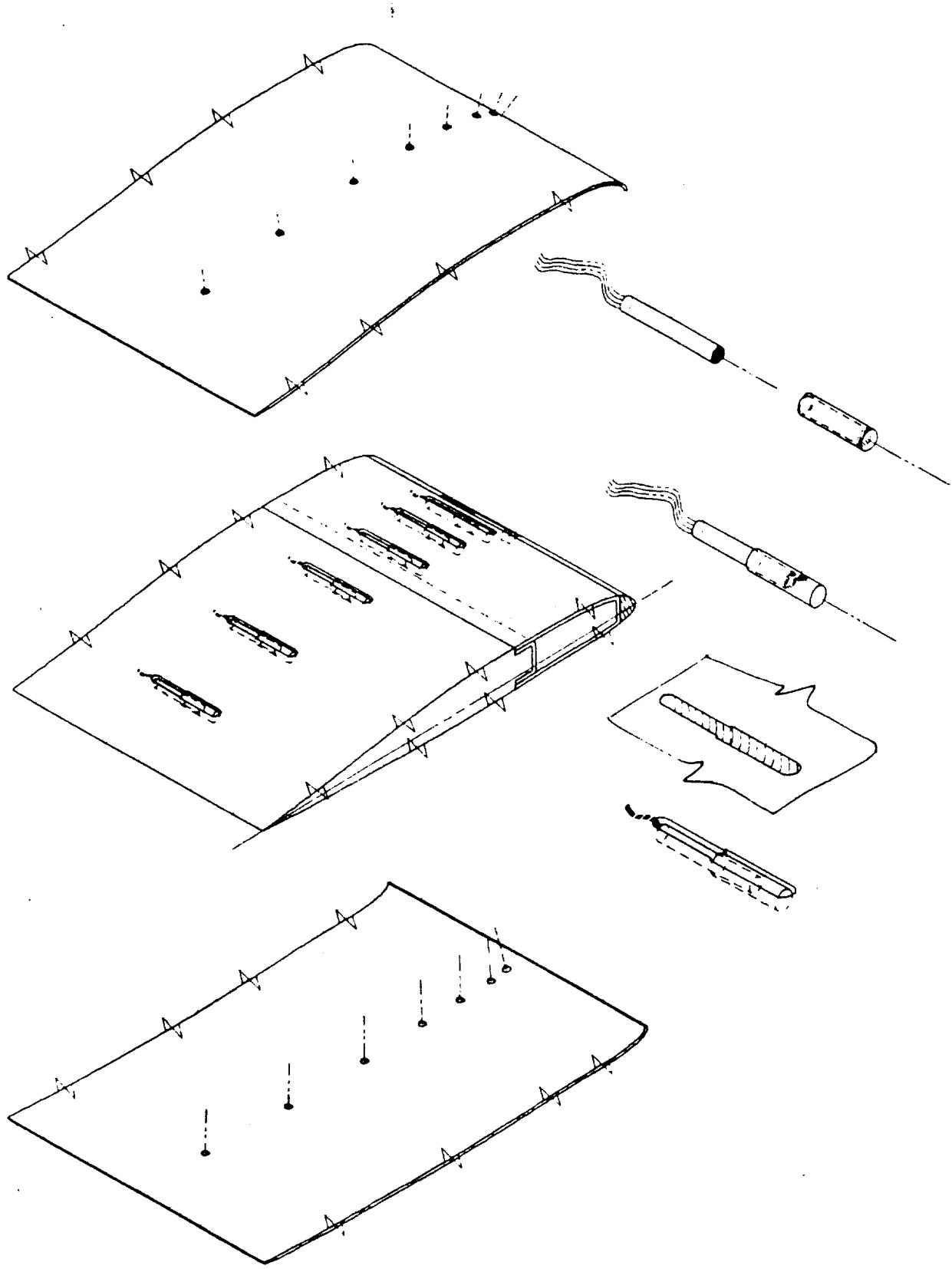


Figure 7. Pressure Transducer Installation Diagram.

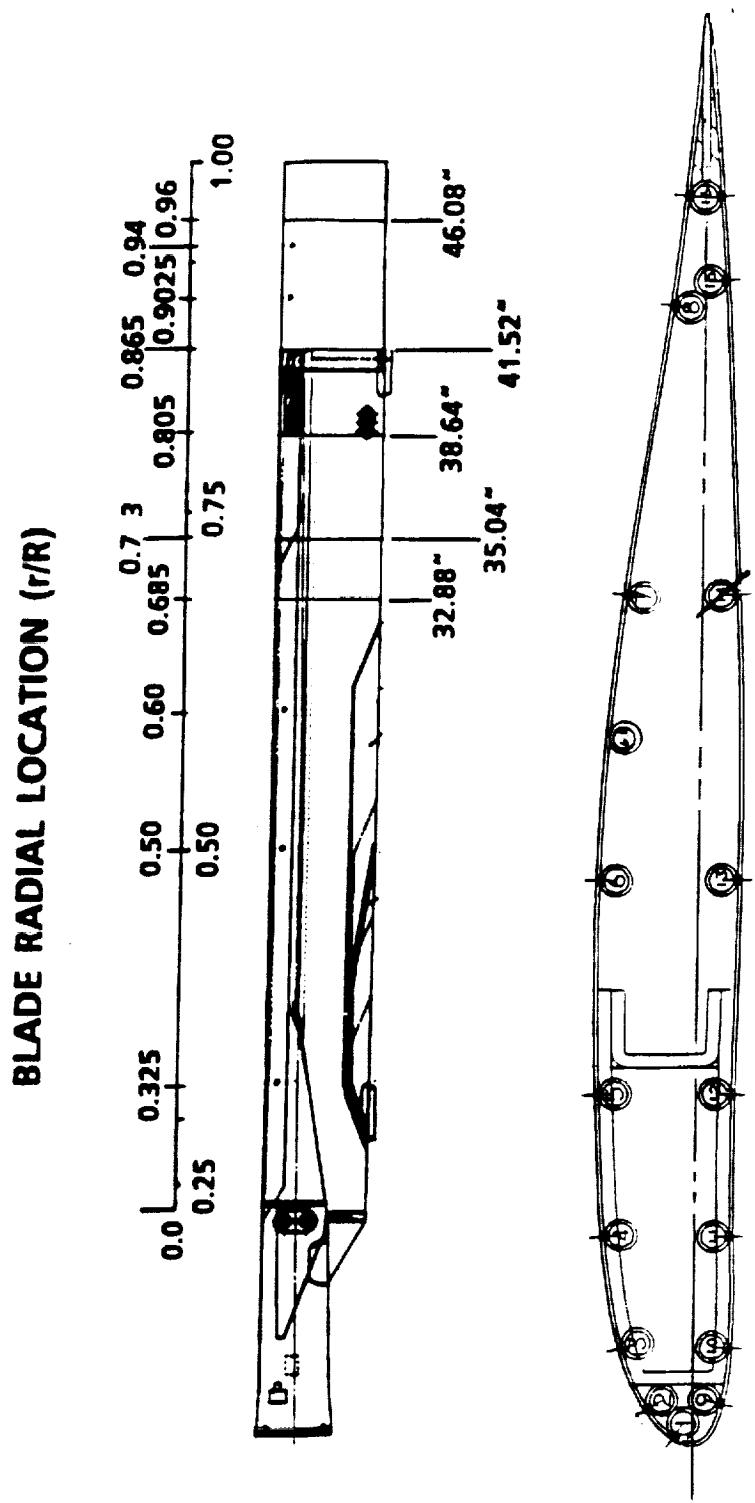


Figure 8. Pressure Transducer Distribution.

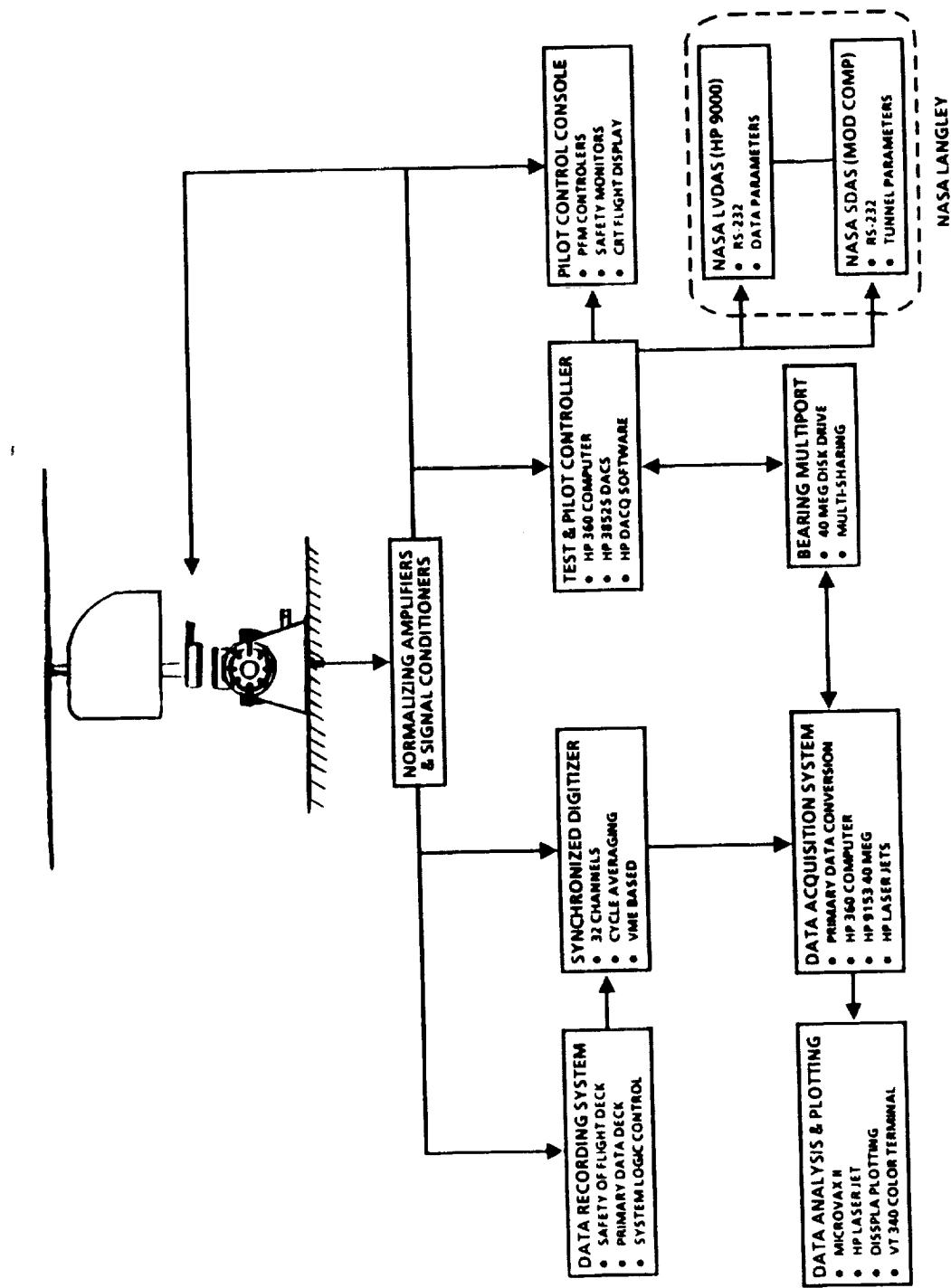


Figure 9. PFM Model Data Acquisition system.

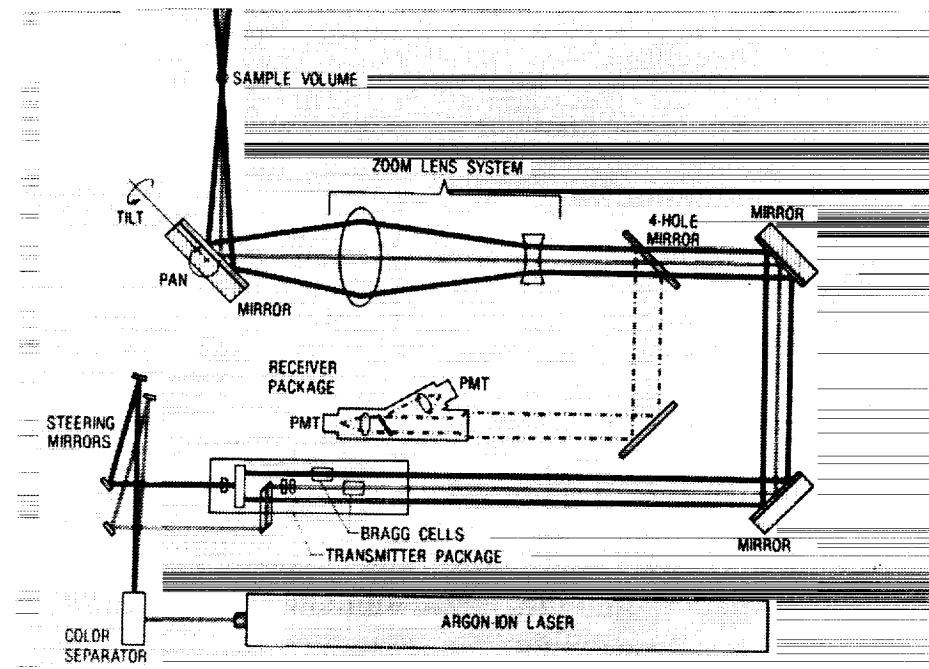


Figure 10. Schematic diagram of Laser Velocimeter Optics Sub-system.

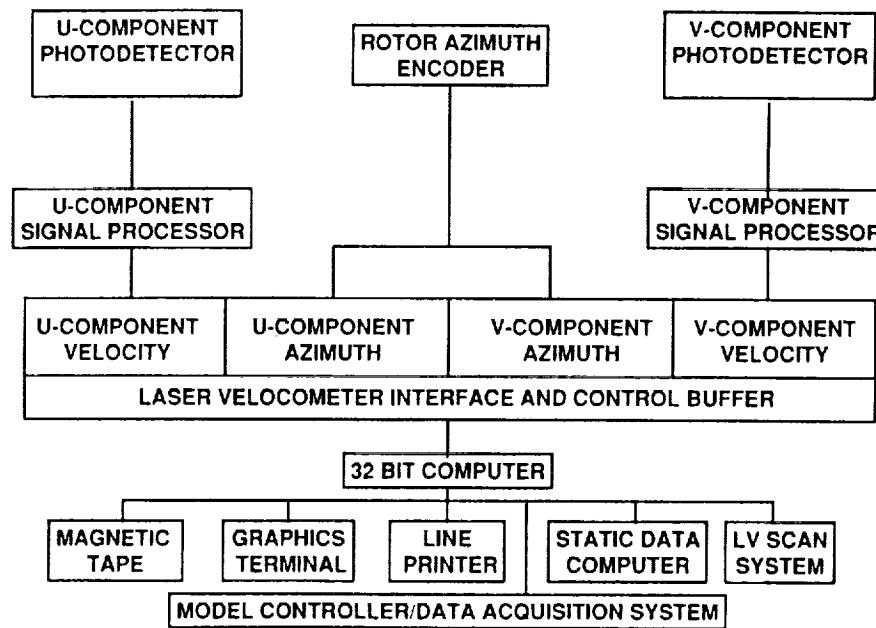


Figure 11. Schematic diagram of Data Acquisition and Control System.

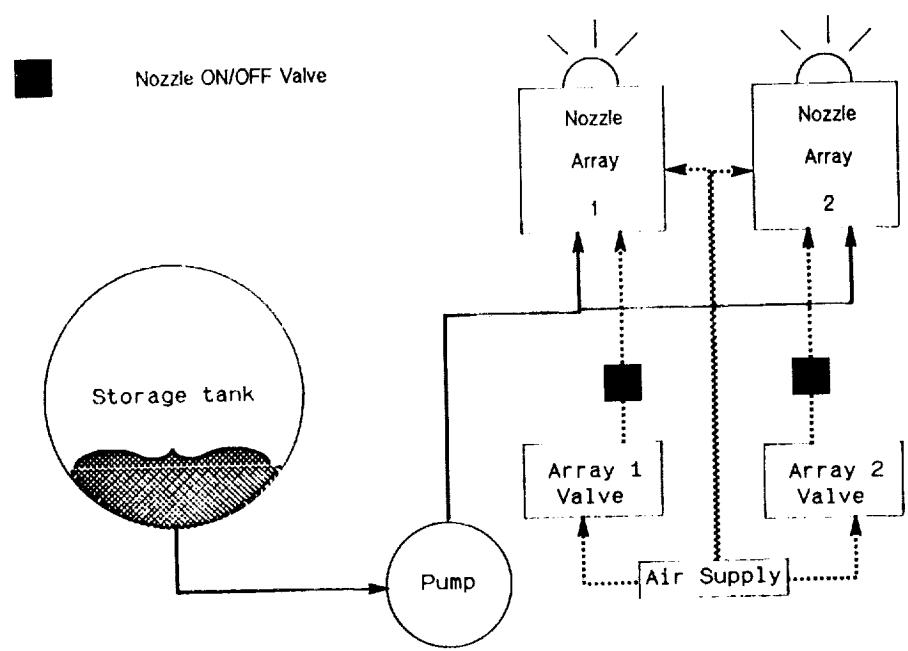


Figure 12. Schematic of the Seeding System.

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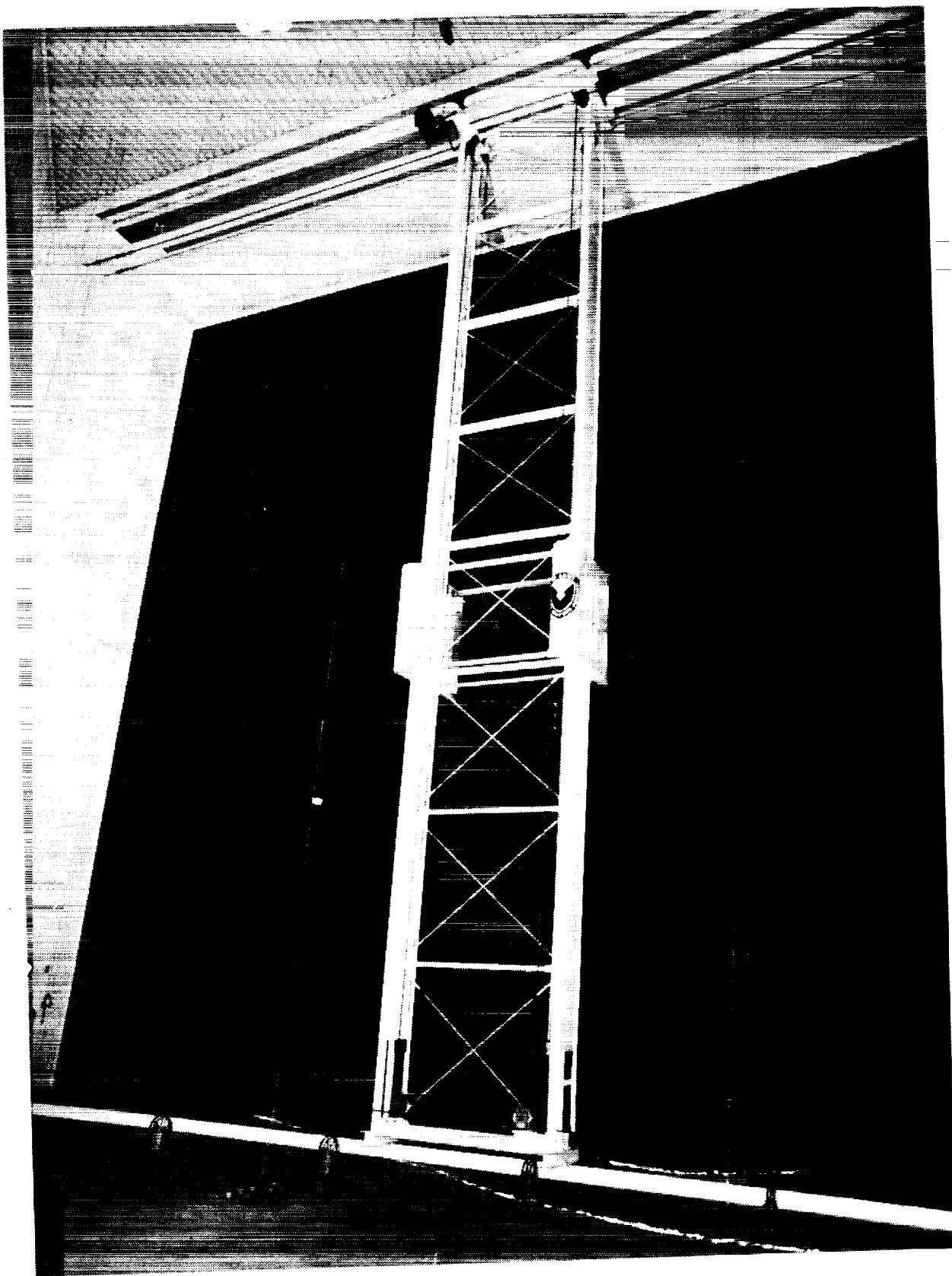


Figure 13. Traverse assembly for LV seeding system shown in the Settling Chamber of the Tunnel.

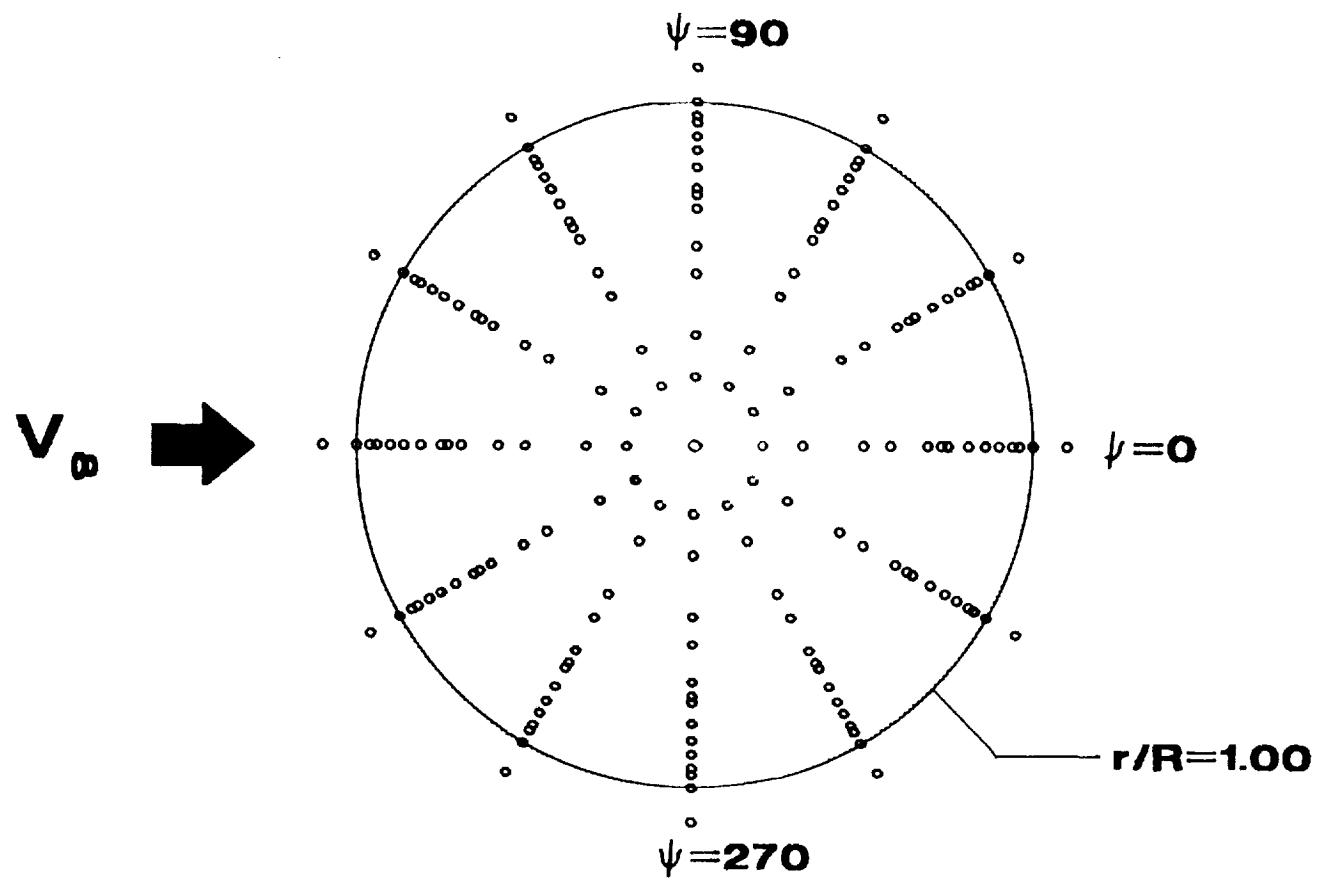


Figure 14. Location of the Inflow Measurements points.

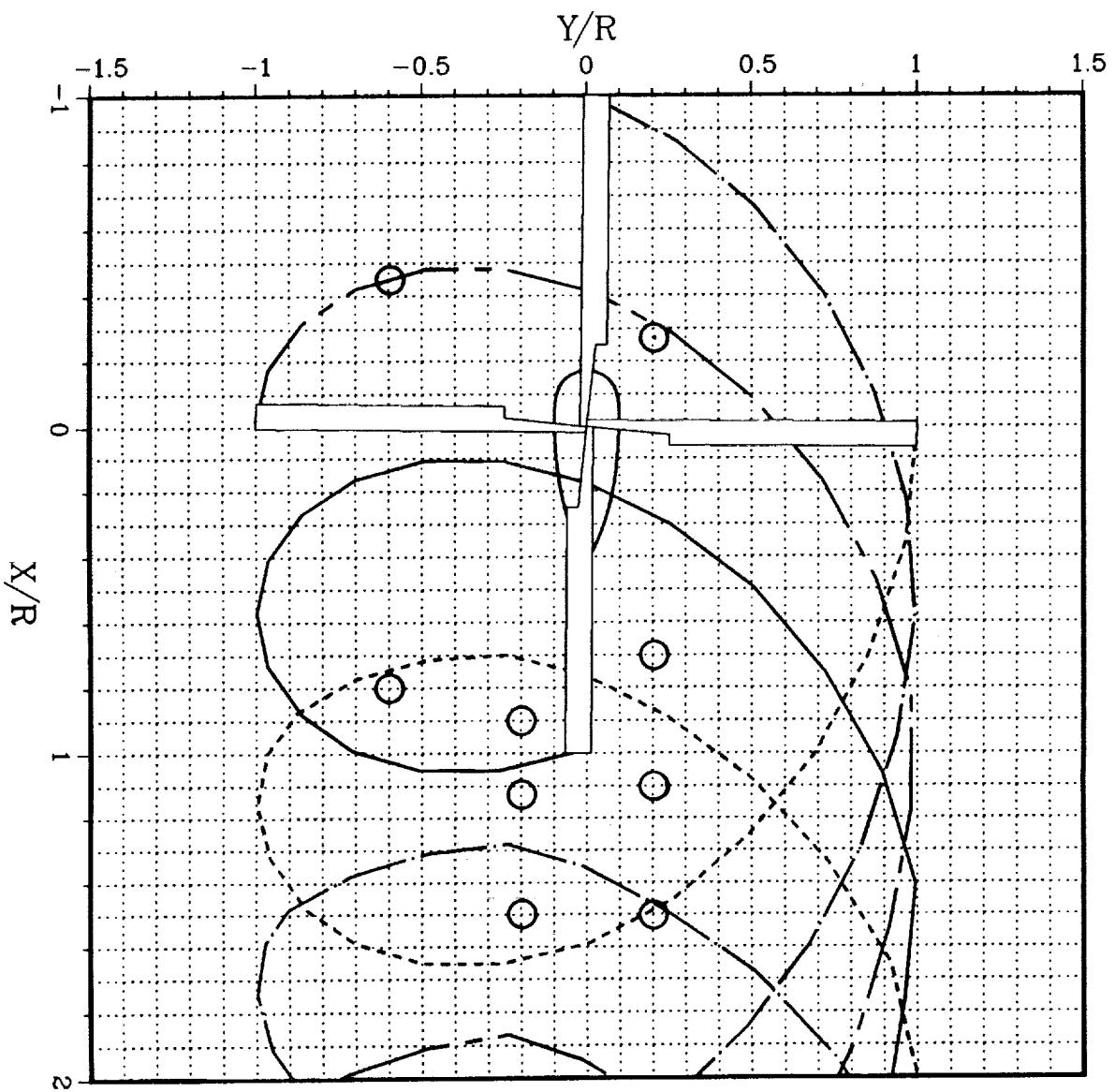


Figure 15. Location of the Inflow Measurements points.

MEASURING PLANE AT $Y/R = -0.60$
 $\Psi = 0.00$

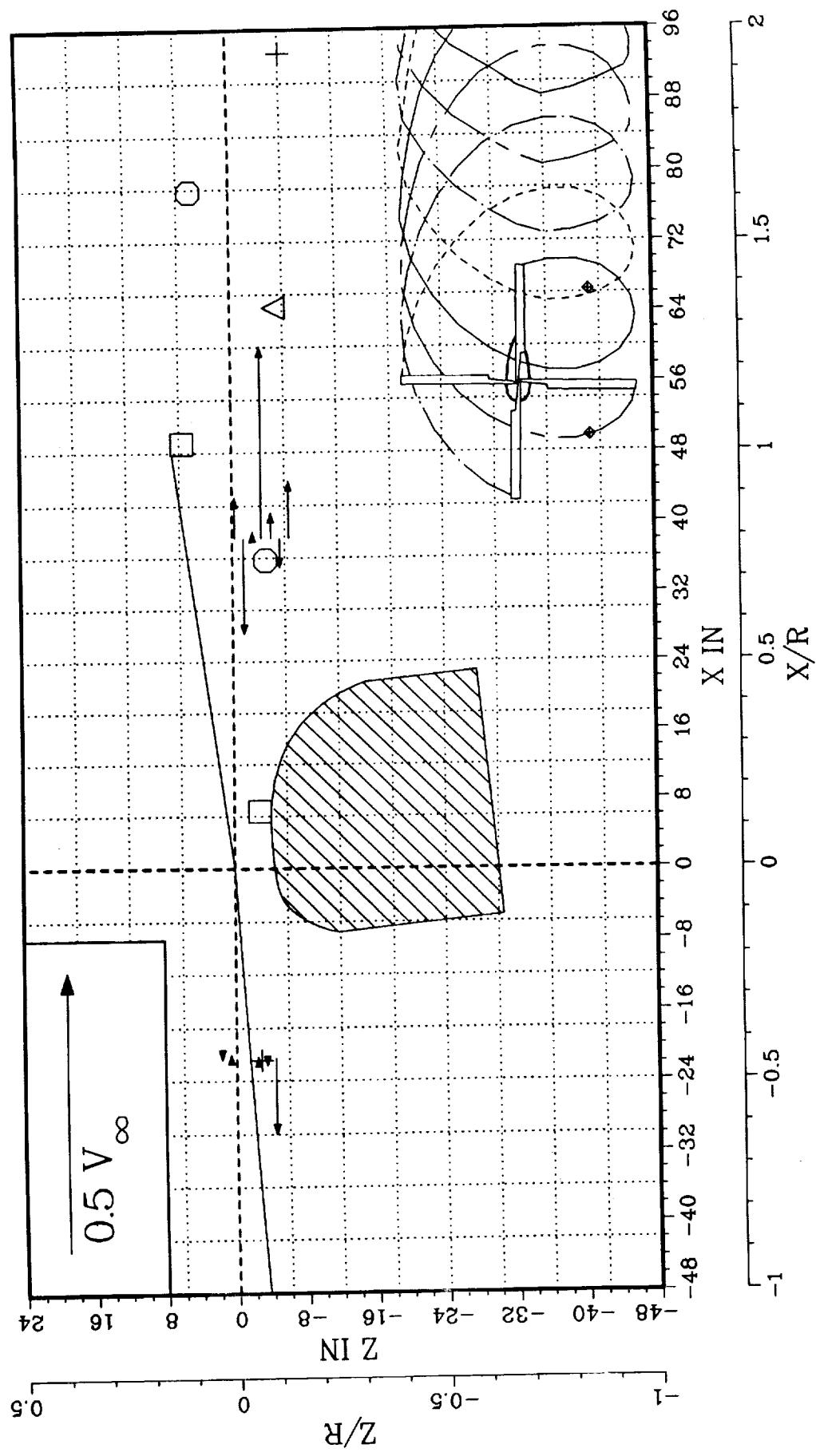


Figure 16. Wake Measurements at $Y/R = -0.6$, $V_{\text{tip}} = 710$ fps, $C_T = .0081$.

MEASURING PLANE AT $Y/R = -0.20$
 $\Psi = 0.00$

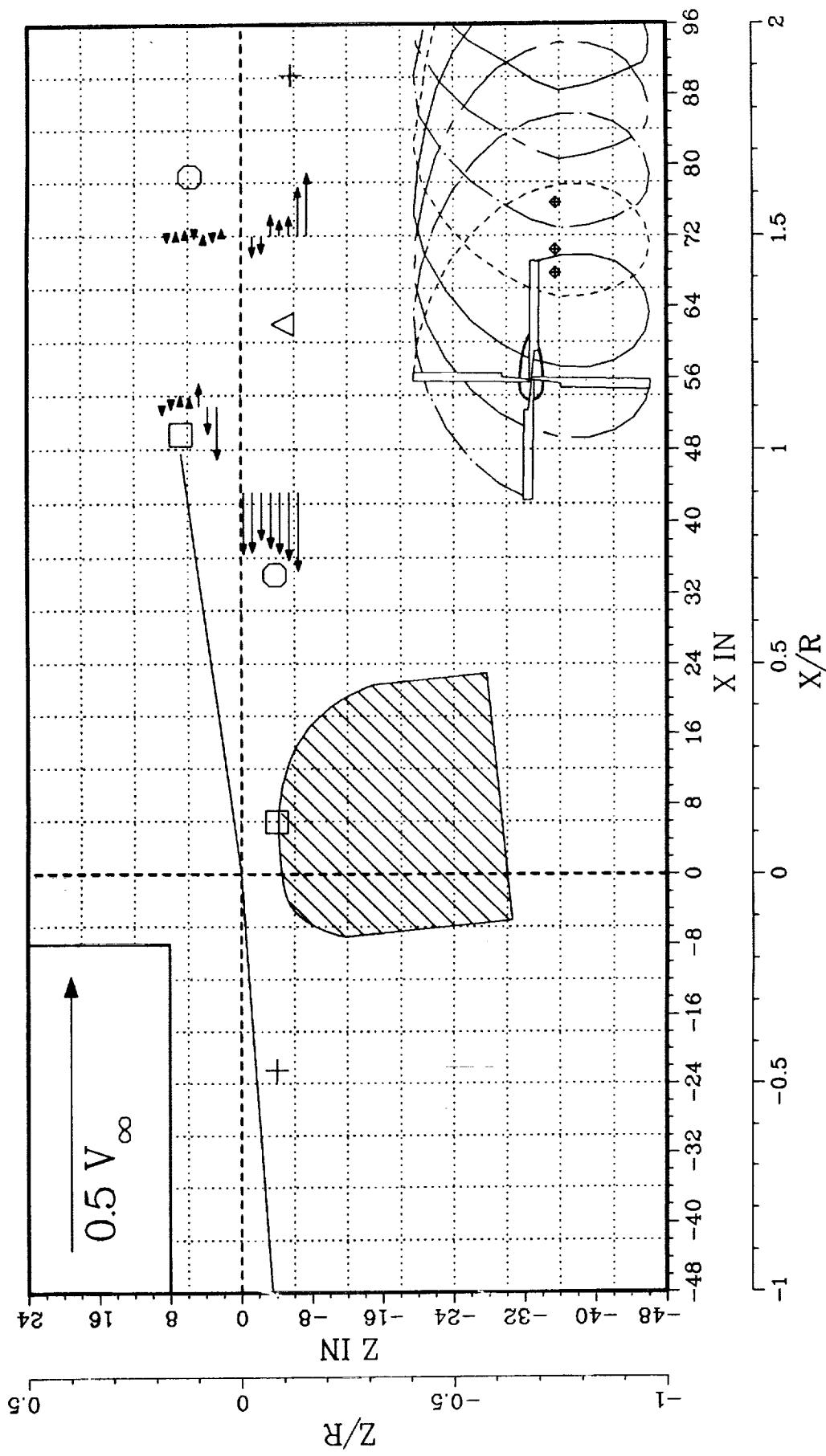


Figure 17. Wake Measurements at $Y/R = 0.2$, $V_{\text{tip}} = 710$ fps, $C_T = .0081$.

MEASURING PLANE AT $Y/R = 0.20$
 $\Psi = 0.00$

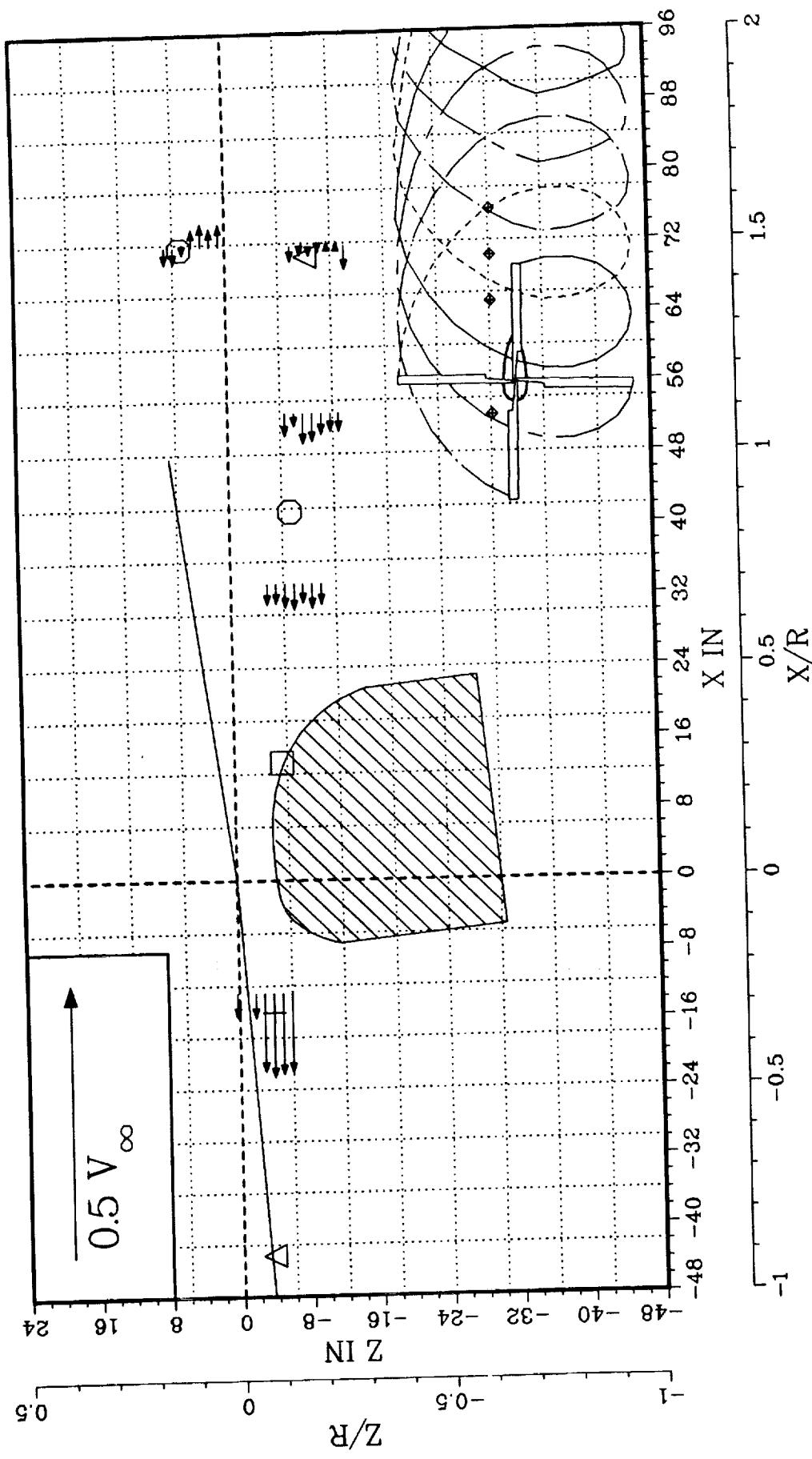


Figure 18. Wake Measurements at $Y/R = 0.2$, $V_{\text{tip}} = 710$ fps, $C_T = .0081$.

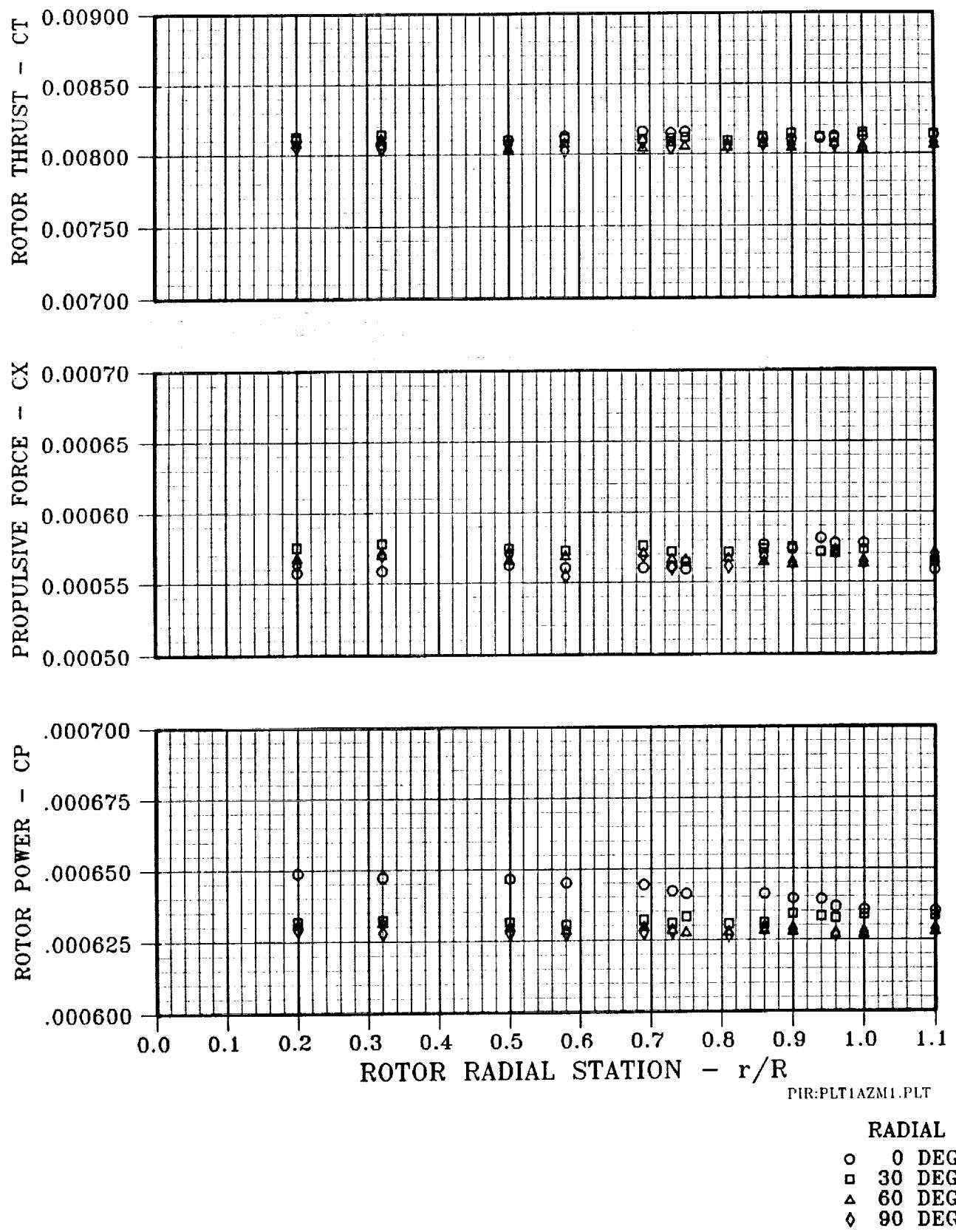


Figure 19. Rotor Performance Parameters During LV Measurements.

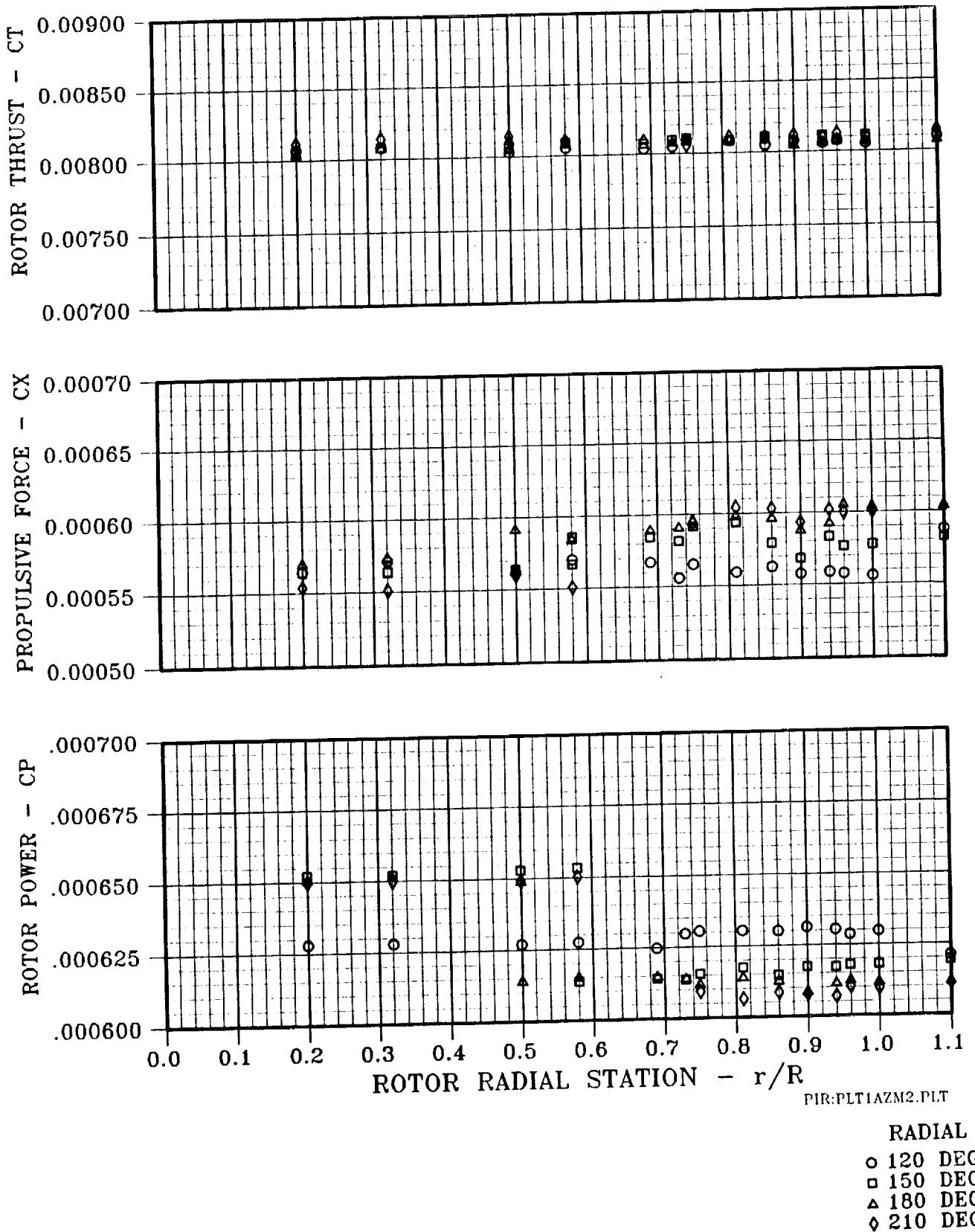


Figure 19. Continued.

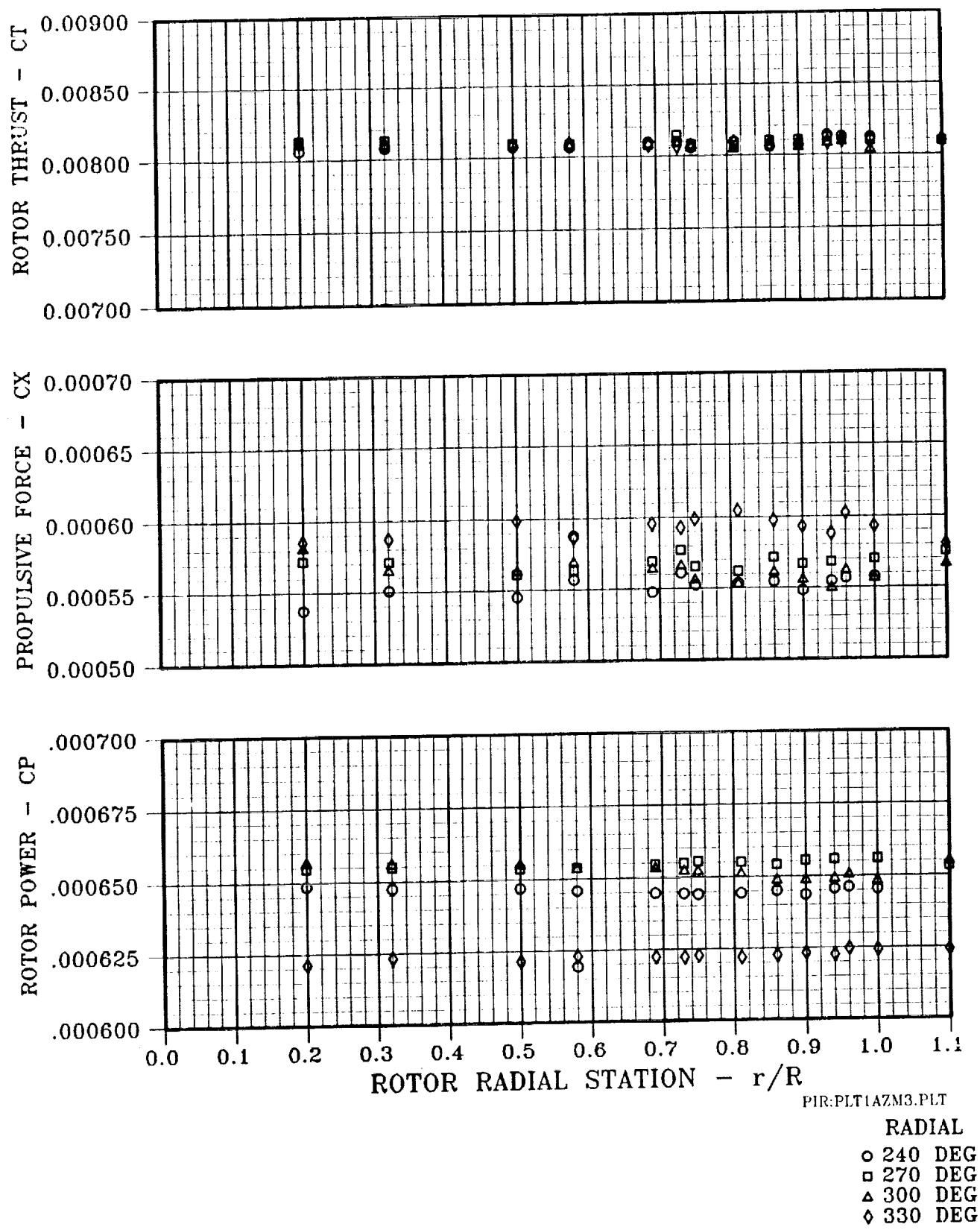
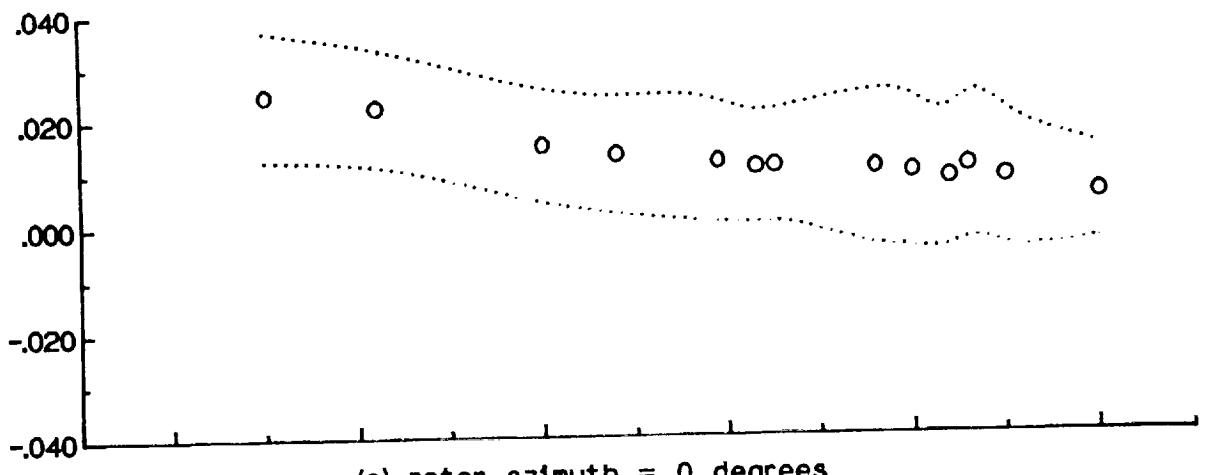
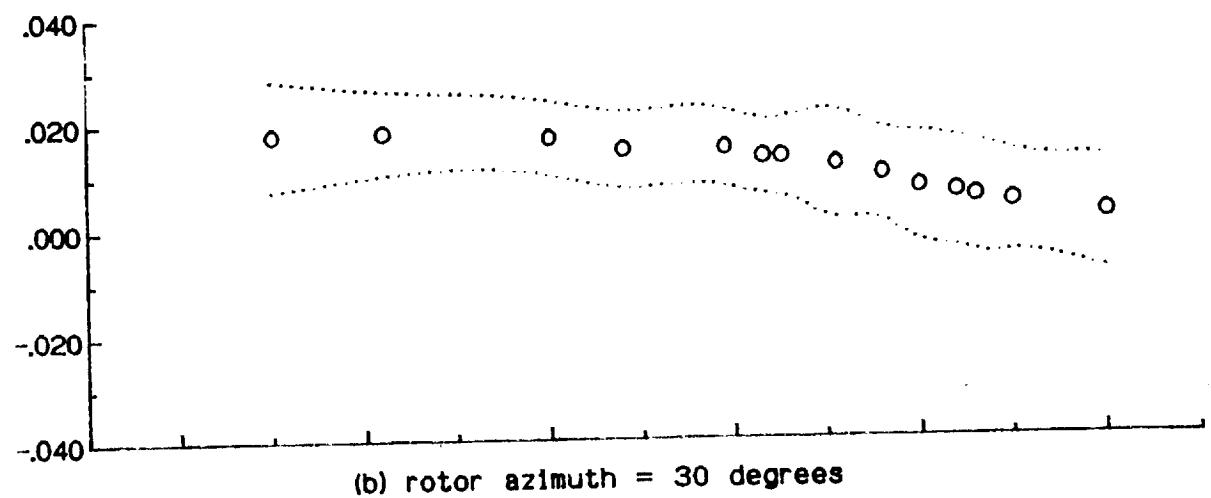


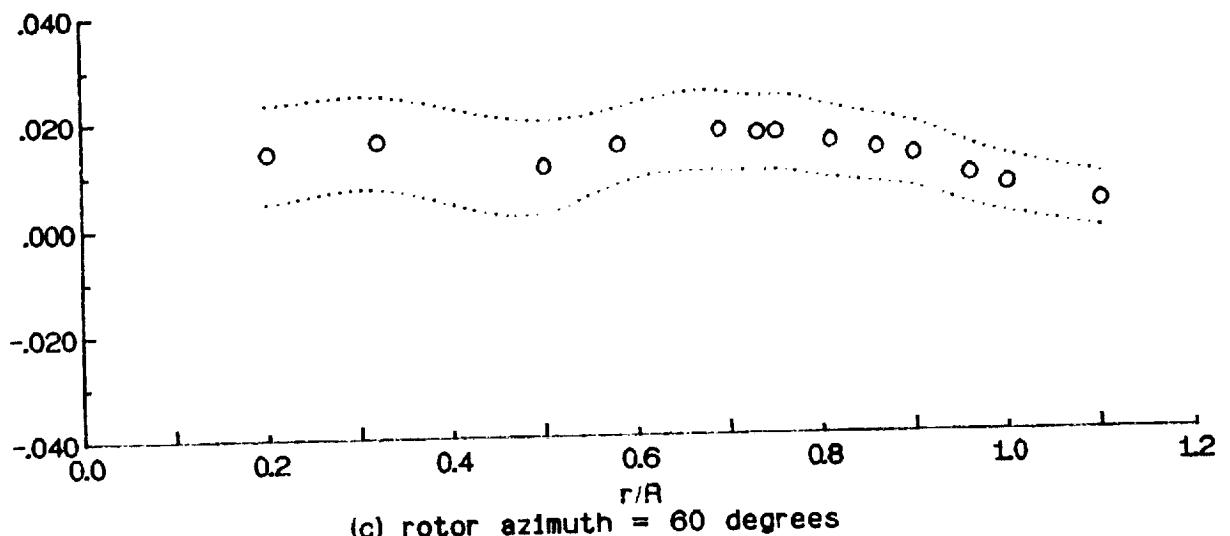
Figure 19. Concluded.



(a) rotor azimuth = 0 degrees

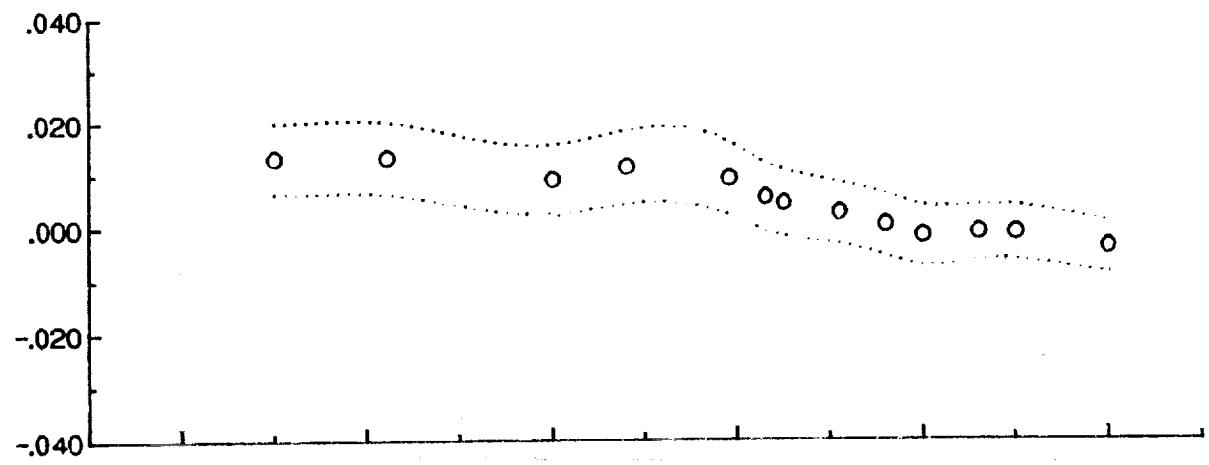


(b) rotor azimuth = 30 degrees

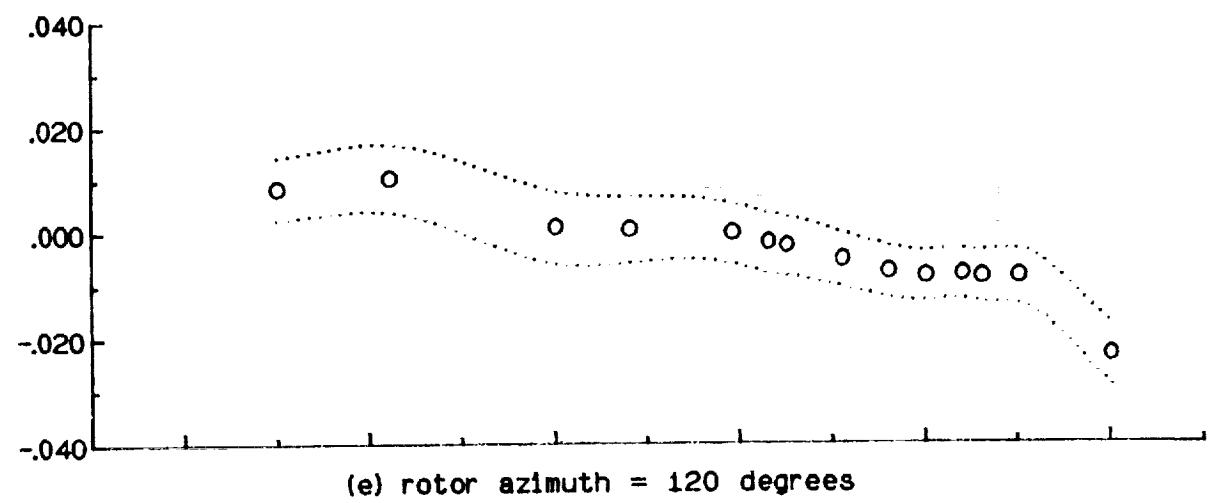


(c) rotor azimuth = 60 degrees

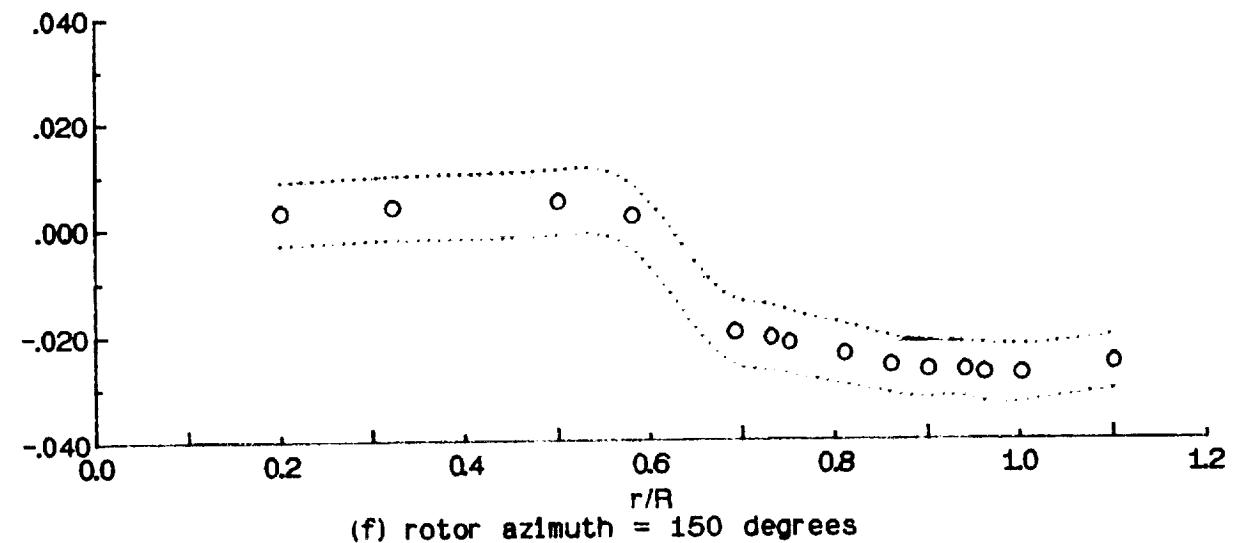
Figure 20. Radial distribution of mean induced inflow ratio ($\bar{\mu}_i$).



(d) rotor azimuth = 90 degrees

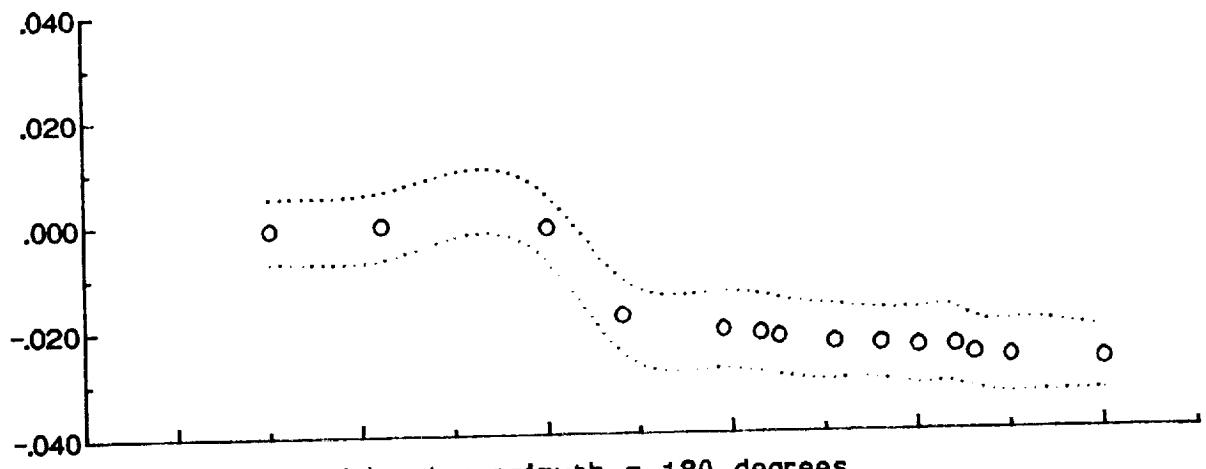


(e) rotor azimuth = 120 degrees

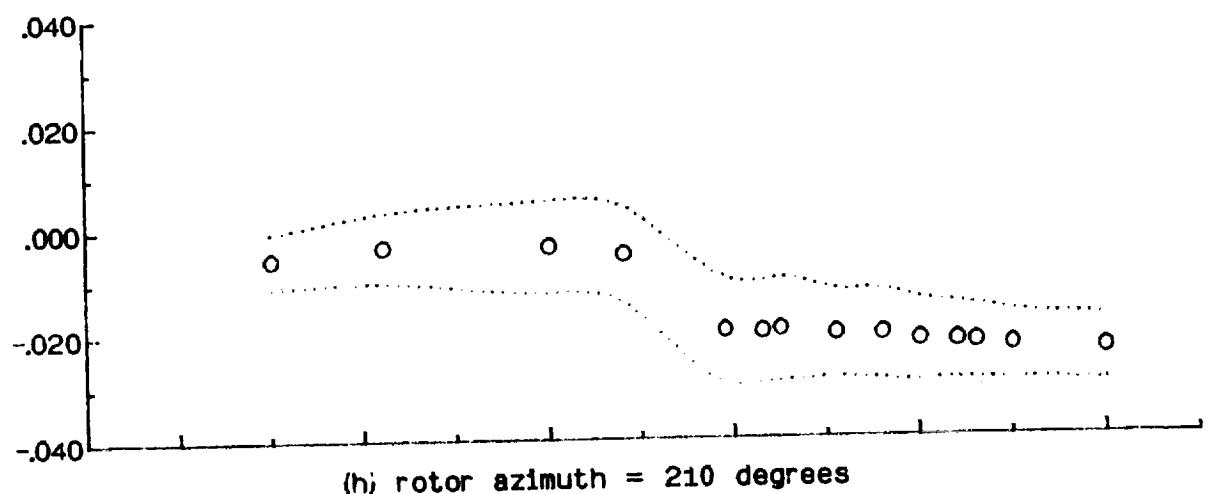


(f) rotor azimuth = 150 degrees

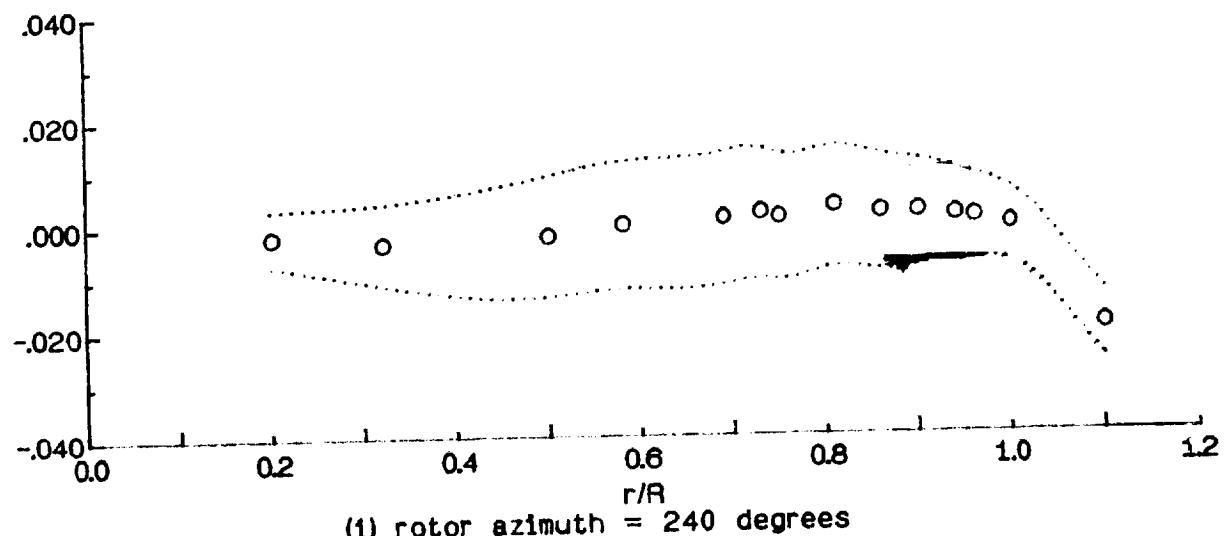
Figure 20. Continued.



(g) rotor azimuth = 180 degrees

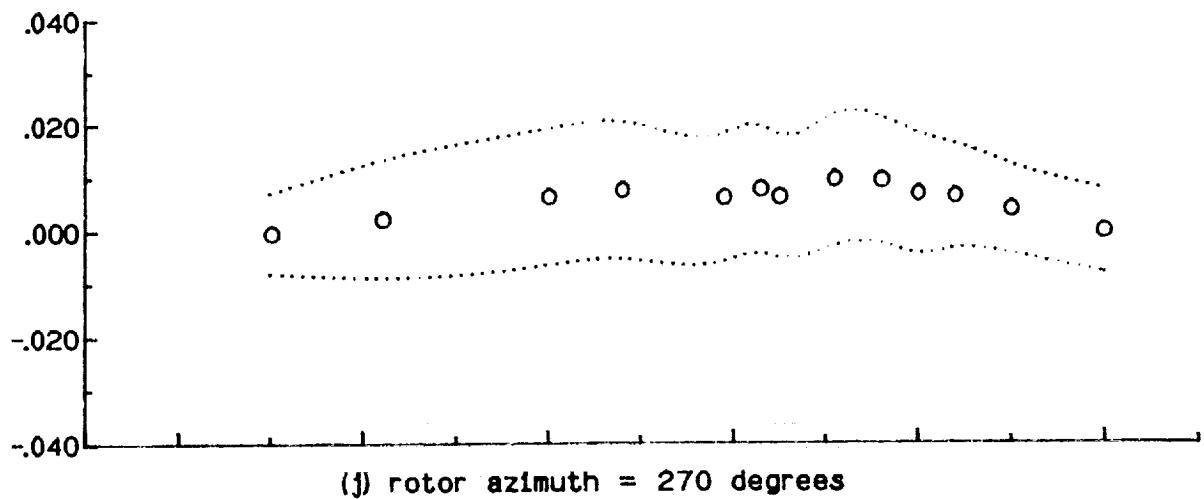


(h) rotor azimuth = 210 degrees

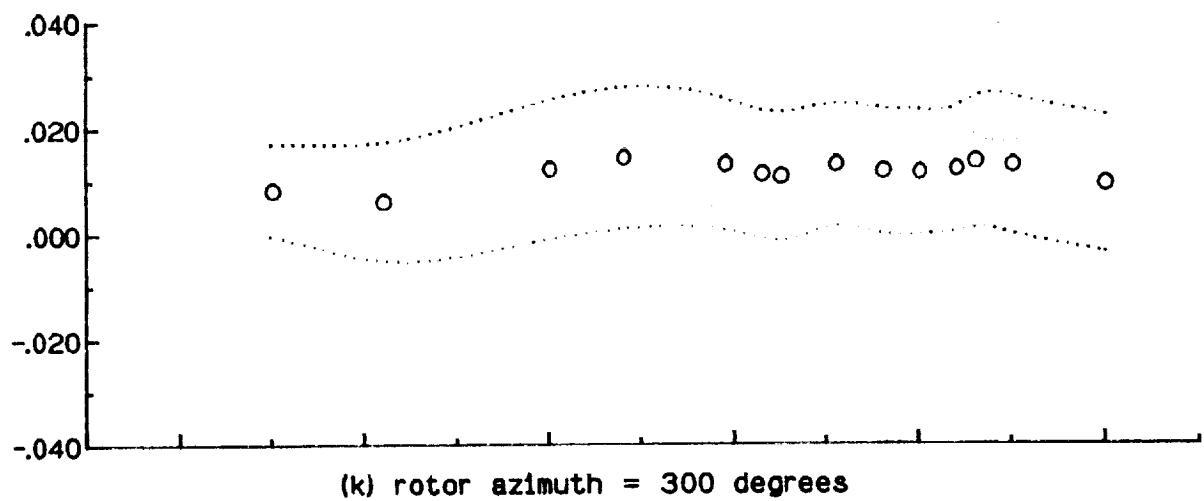


(l) rotor azimuth = 240 degrees

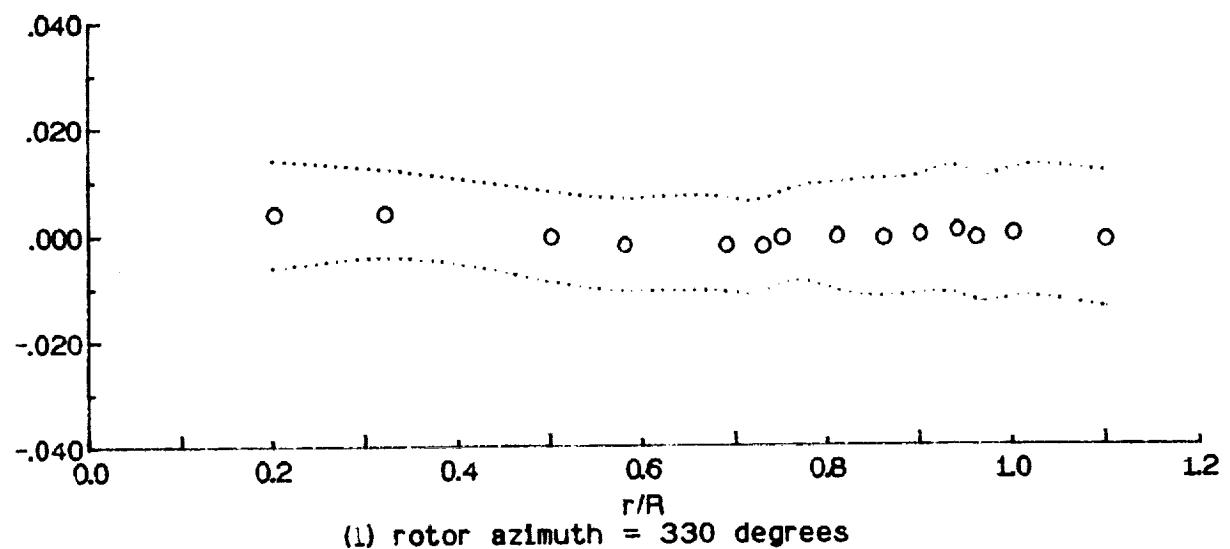
Figure 20. Continued.



(j) rotor azimuth = 270 degrees



(k) rotor azimuth = 300 degrees



(l) rotor azimuth = 330 degrees

Figure 20. Concluded.

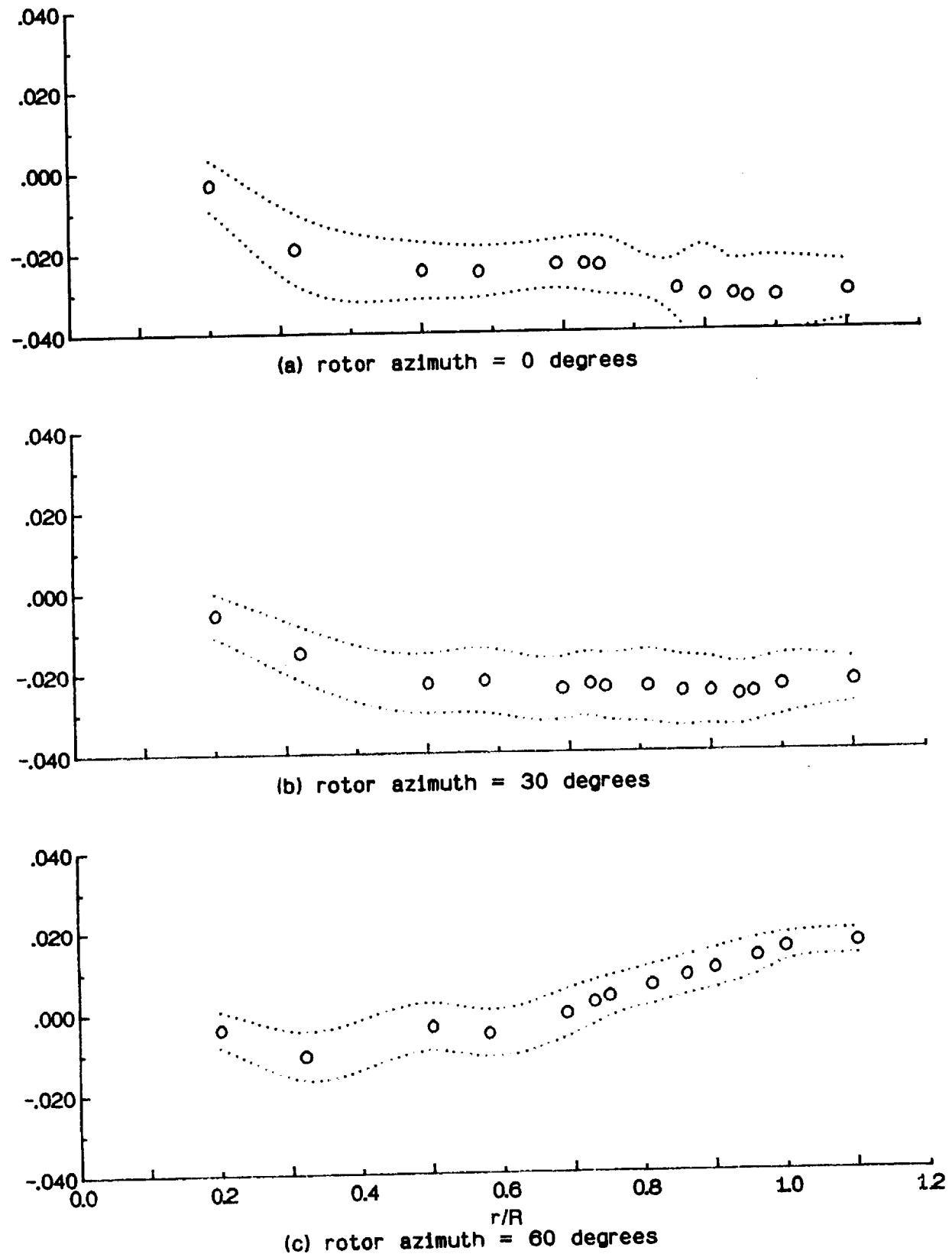
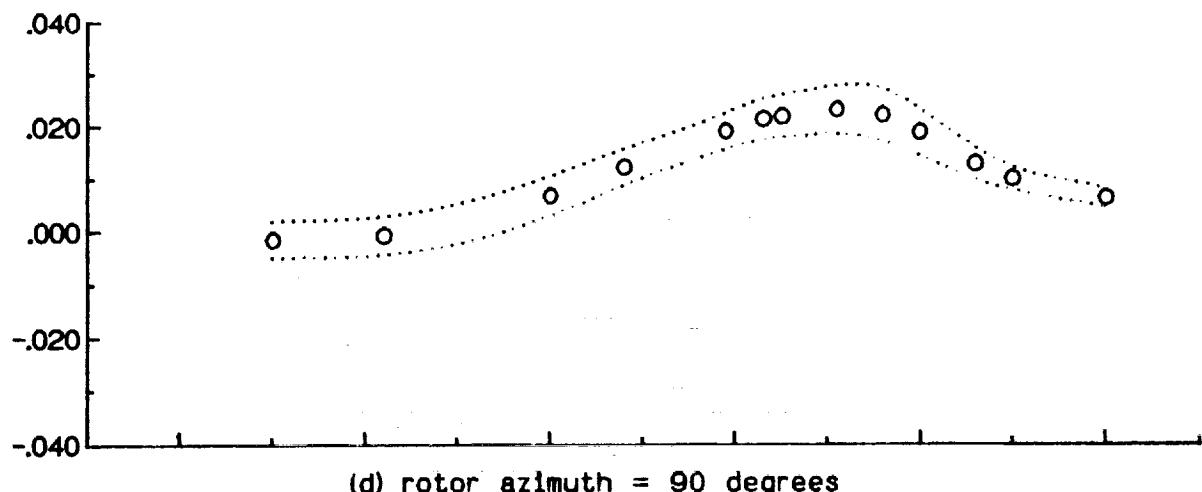
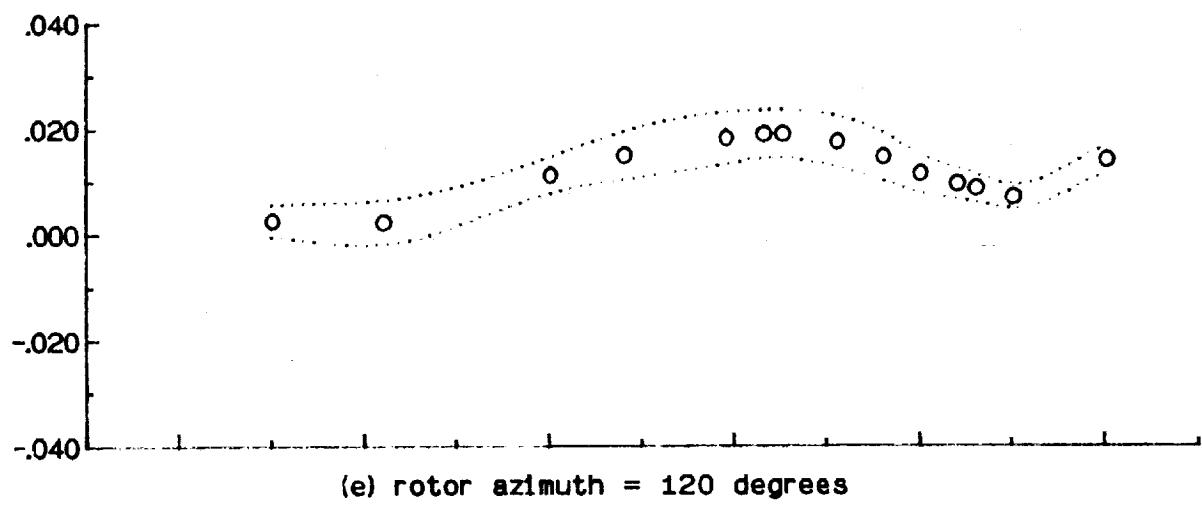


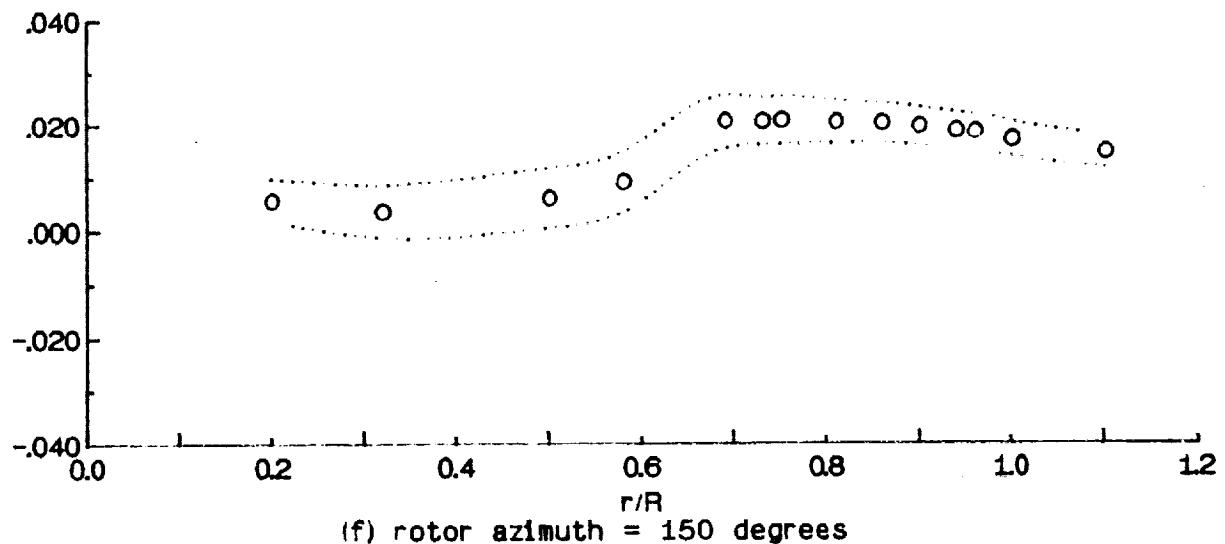
Figure 21. Radial distribution of mean induced inflow ratio ($\bar{\lambda}_i$).



(d) rotor azimuth = 90 degrees

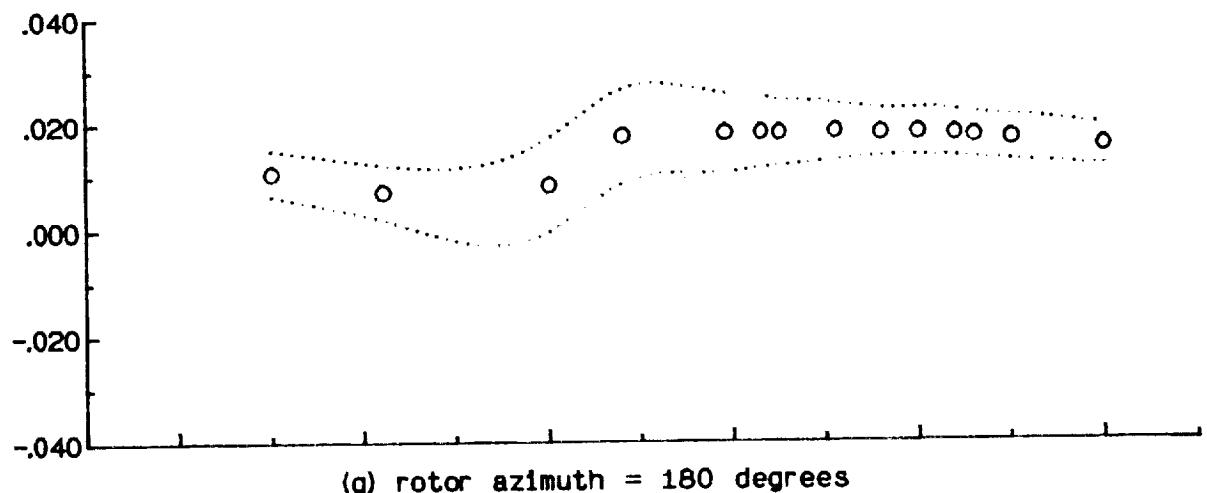


(e) rotor azimuth = 120 degrees

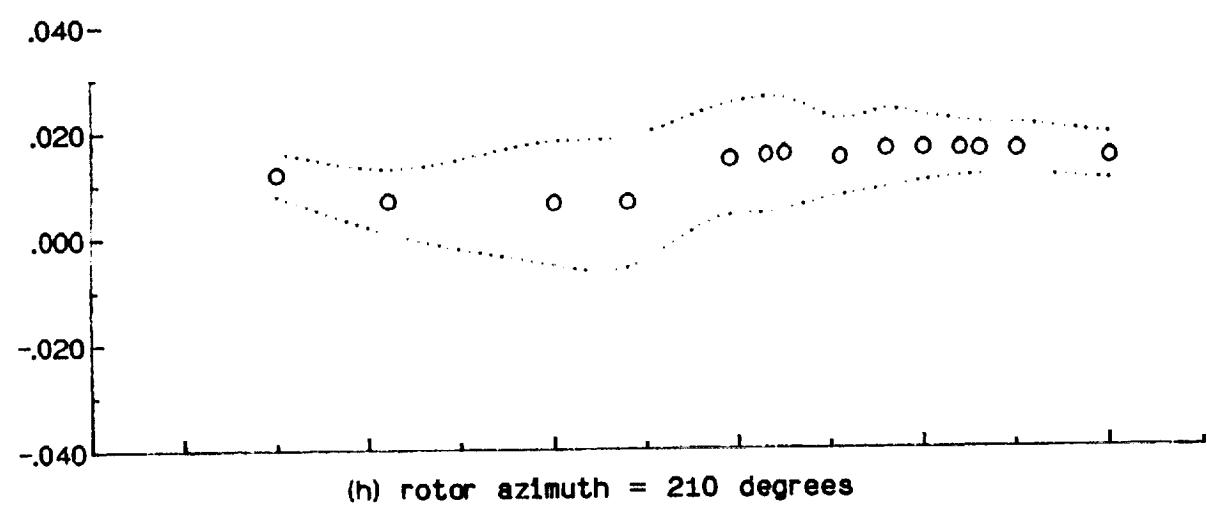


(f) rotor azimuth = 150 degrees

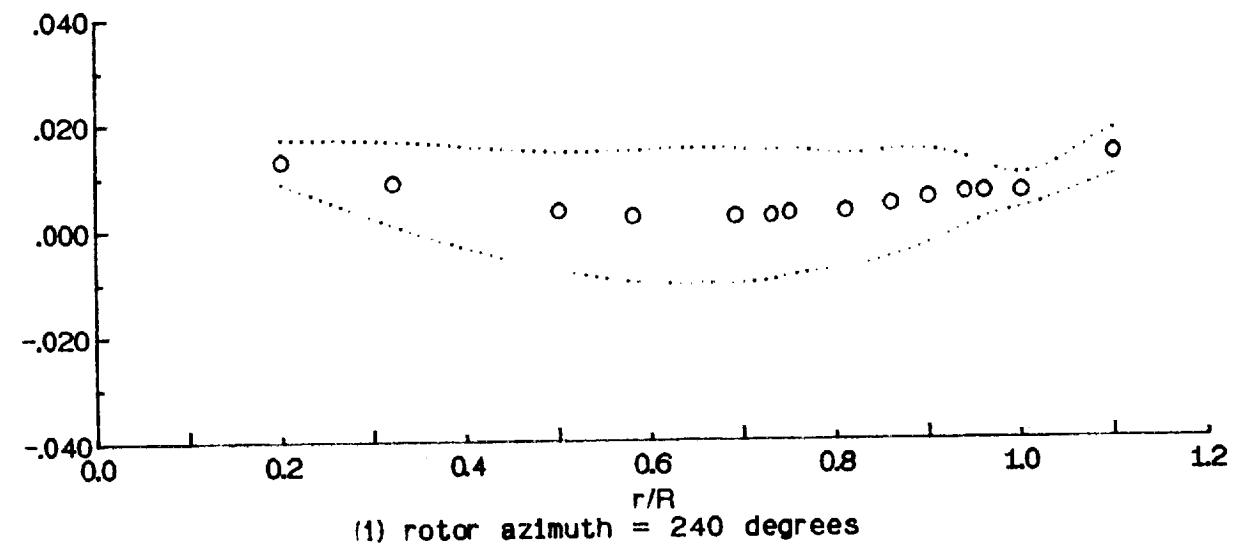
Figure 21. Continued.



(g) rotor azimuth = 180 degrees

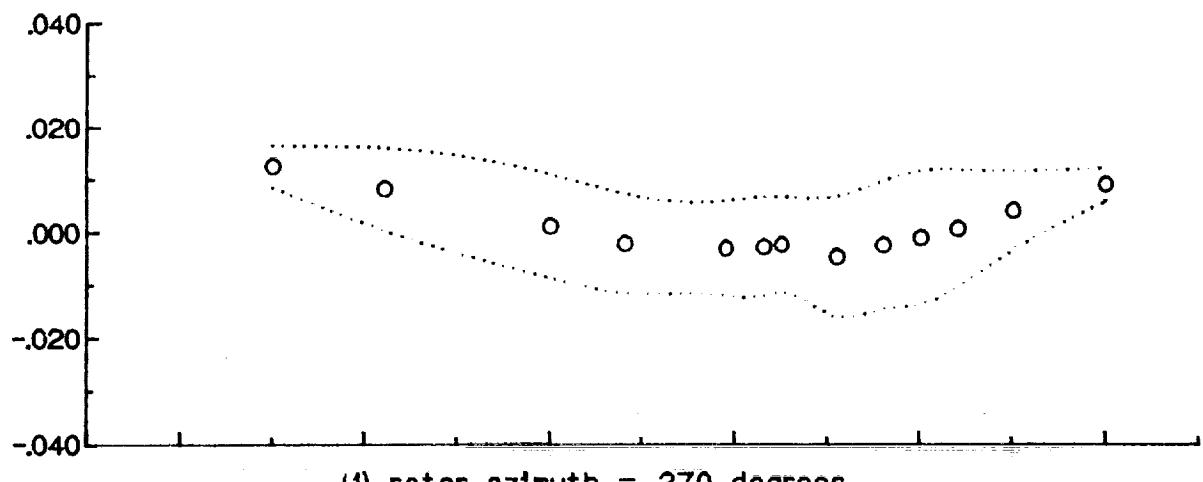


(h) rotor azimuth = 210 degrees

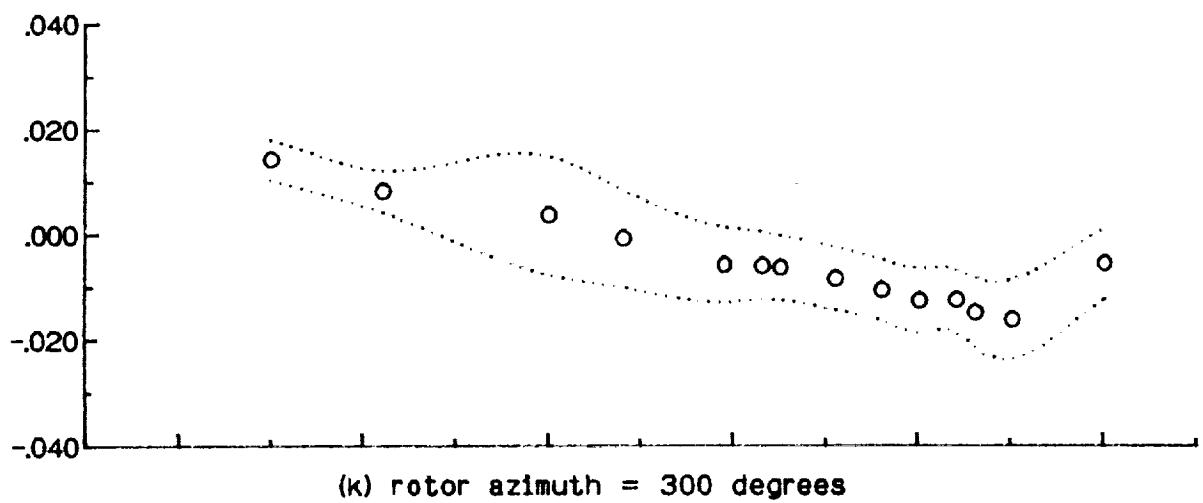


(l) rotor azimuth = 240 degrees

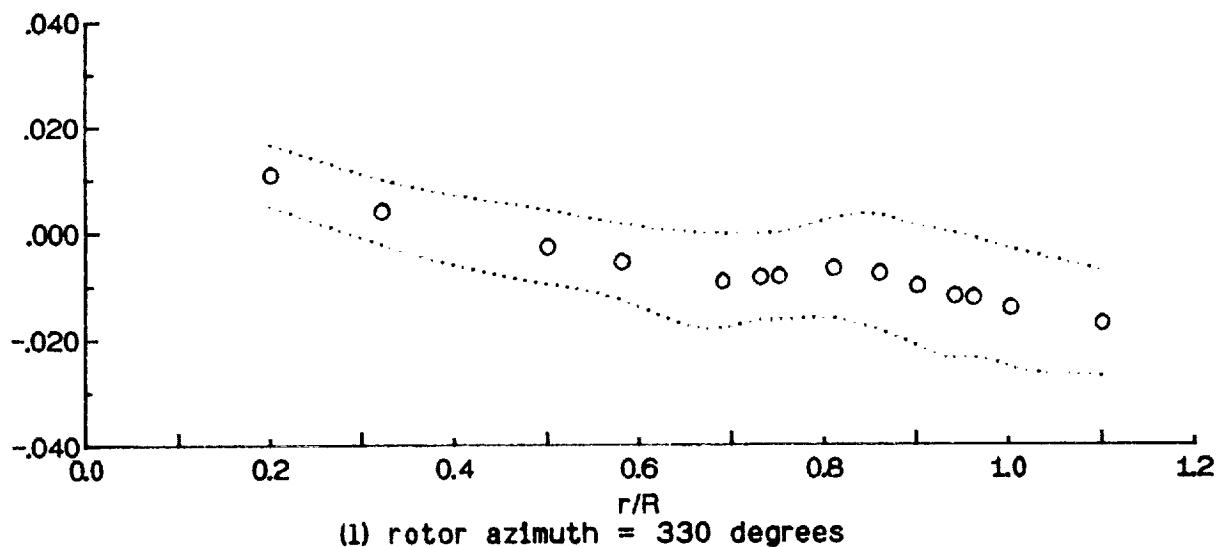
Figure 21. Continued.



(j) rotor azimuth = 270 degrees



(k) rotor azimuth = 300 degrees



(l) rotor azimuth = 330 degrees

Figure 21. Concluded.

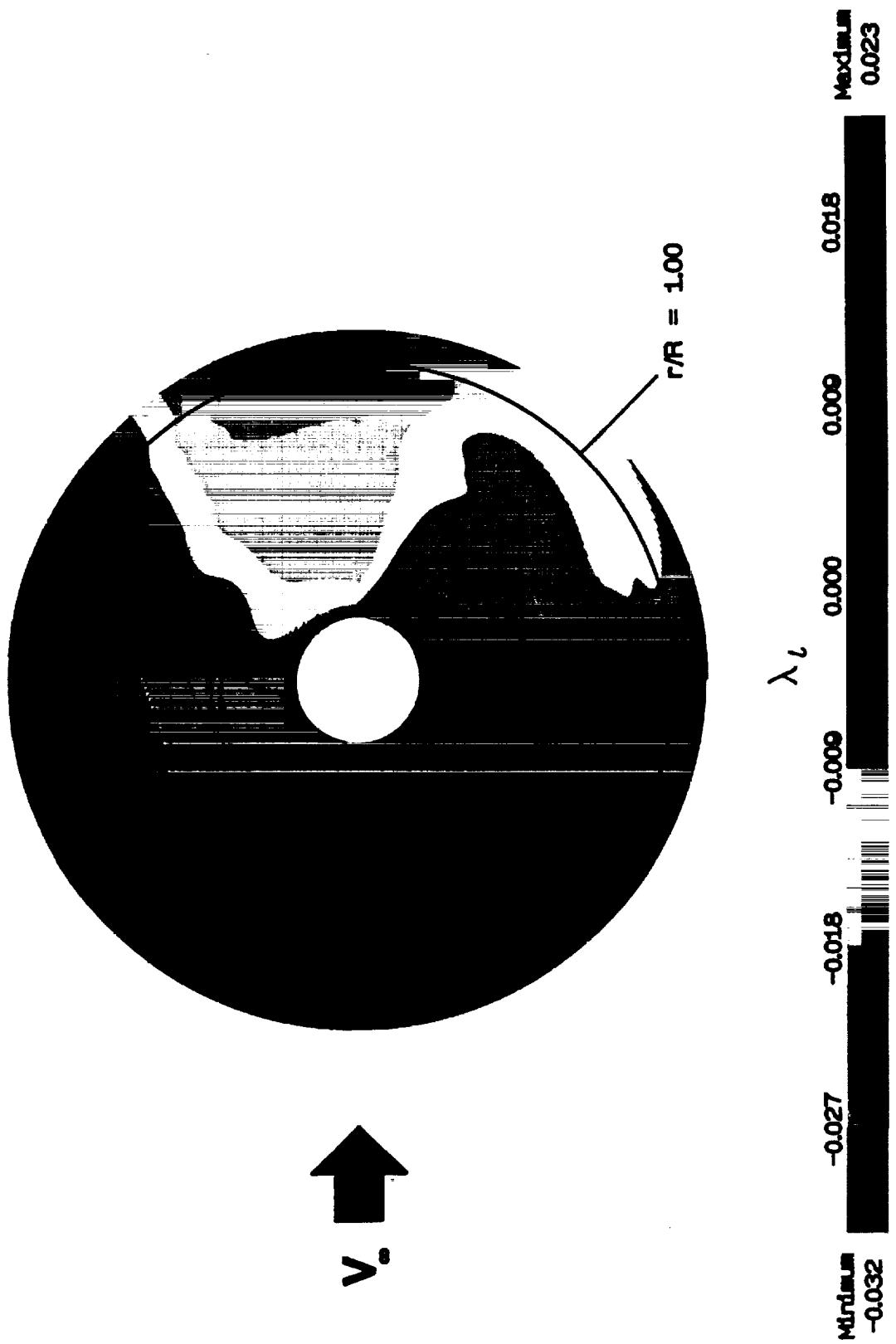
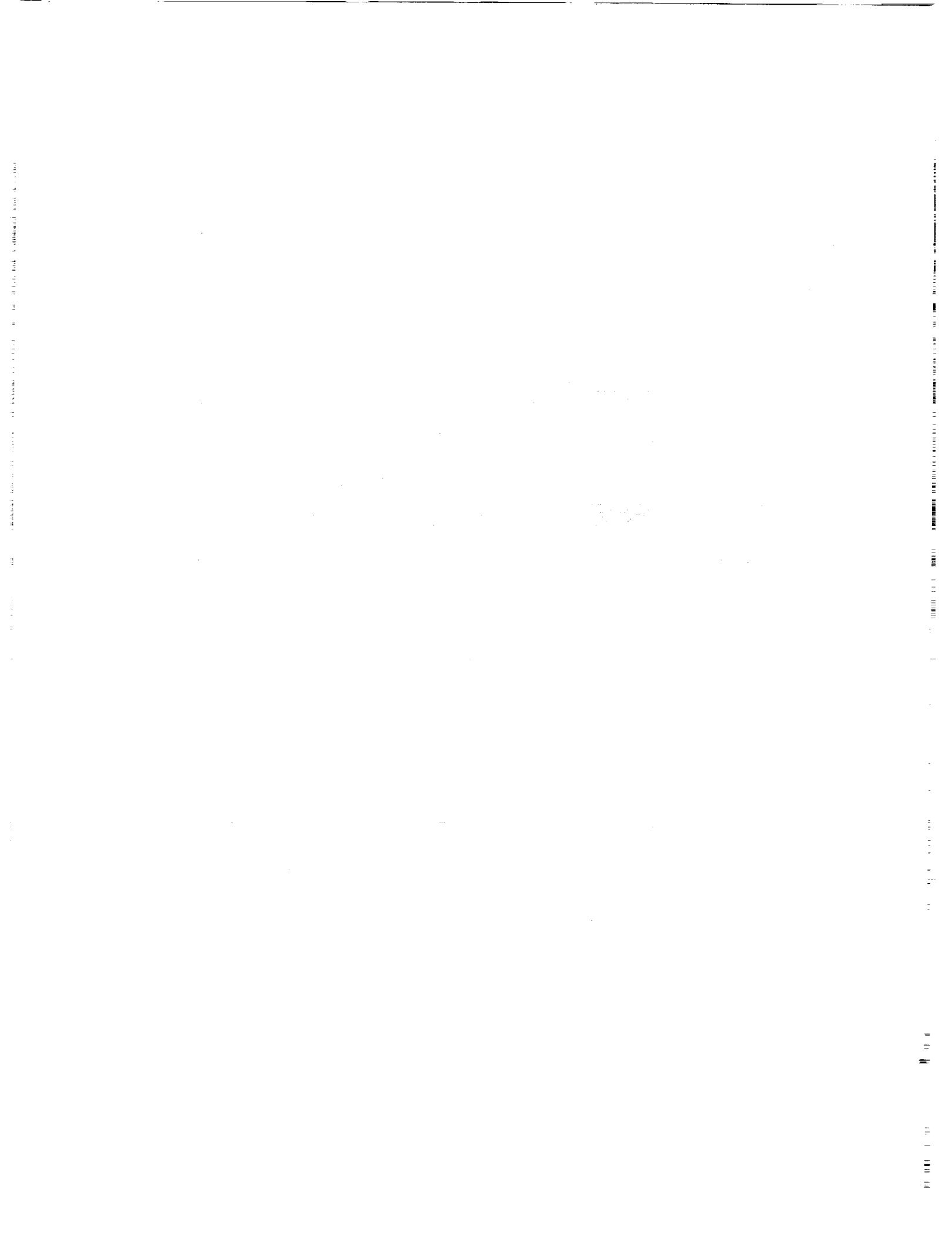


Figure 22. Concluded.



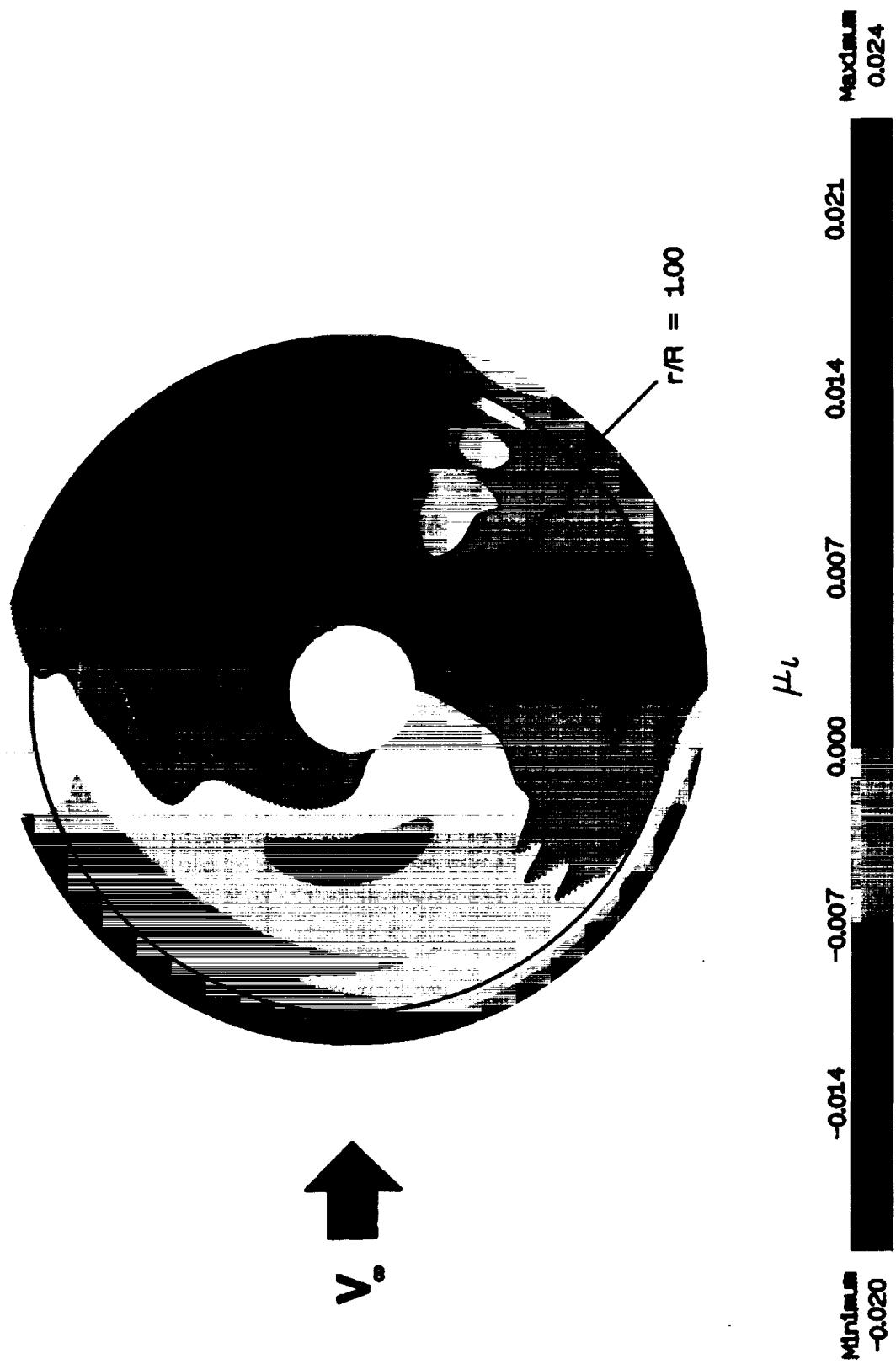
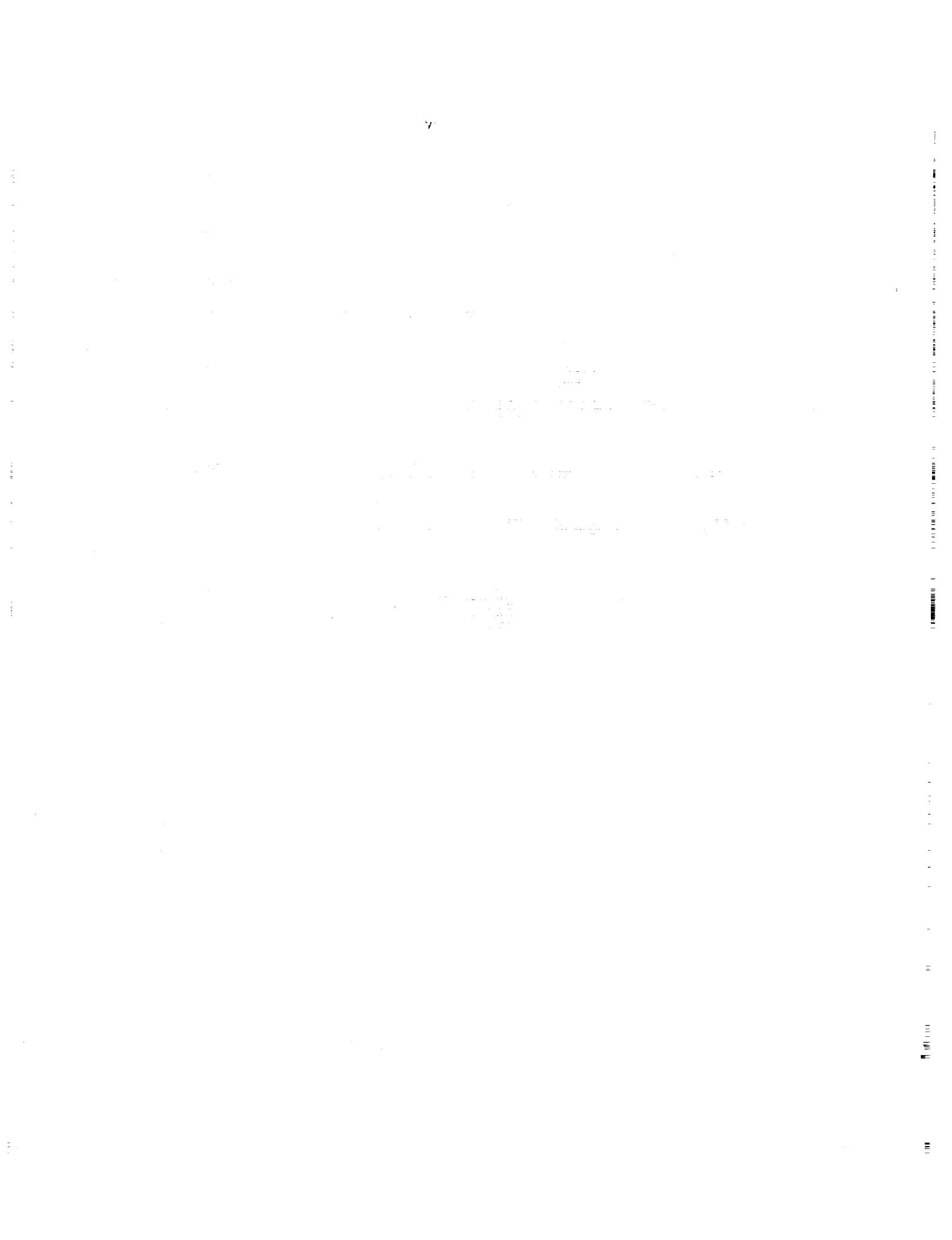


Figure 22. Contour plot mean induced inflow ratio .



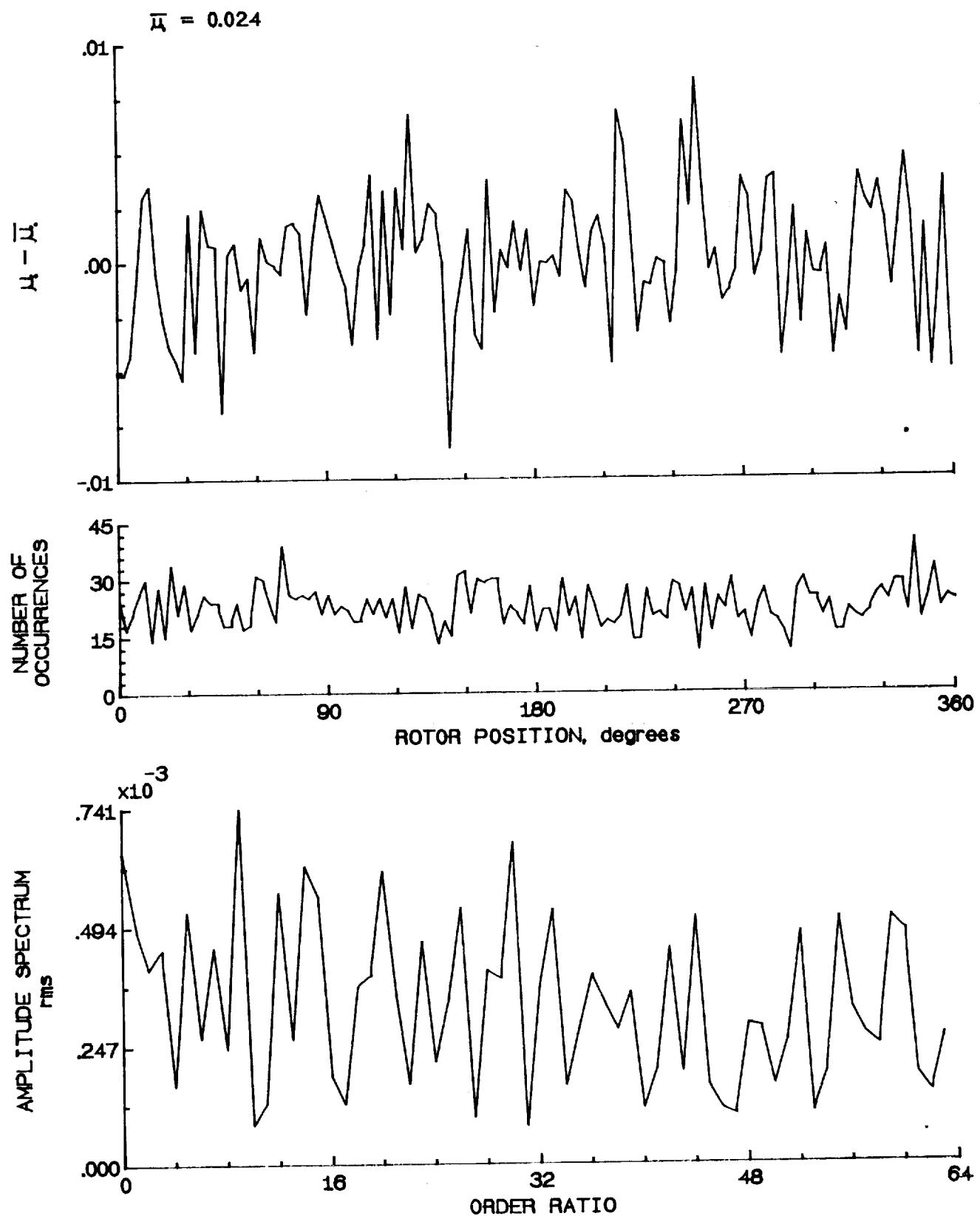


Figure 23.- Induced inflow velocity measured at 0 degrees and r/R of 0.20.

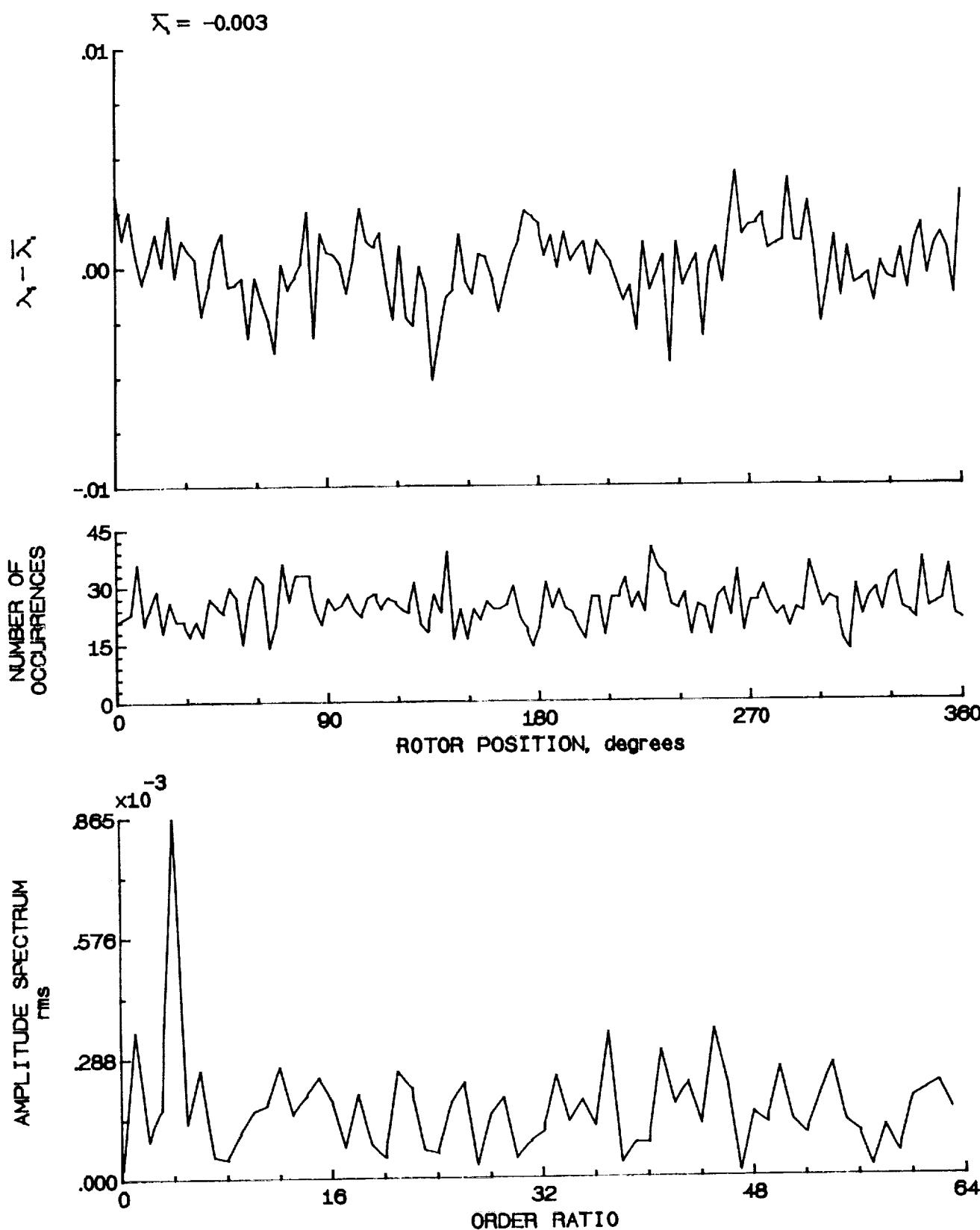


Figure 23.- Concluded.

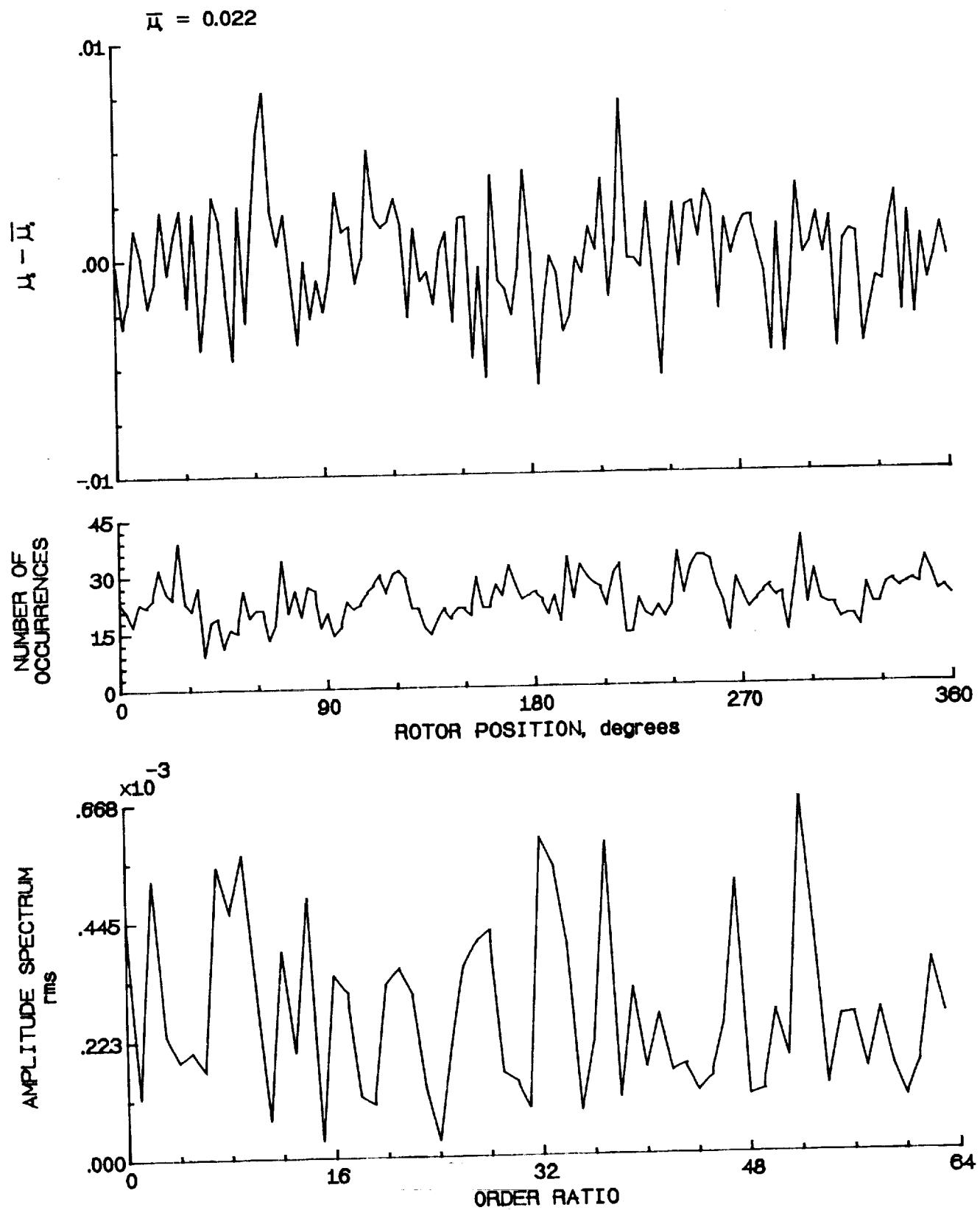


Figure 24.- Induced inflow velocity measured at 0 degrees and r/R of 0.32.

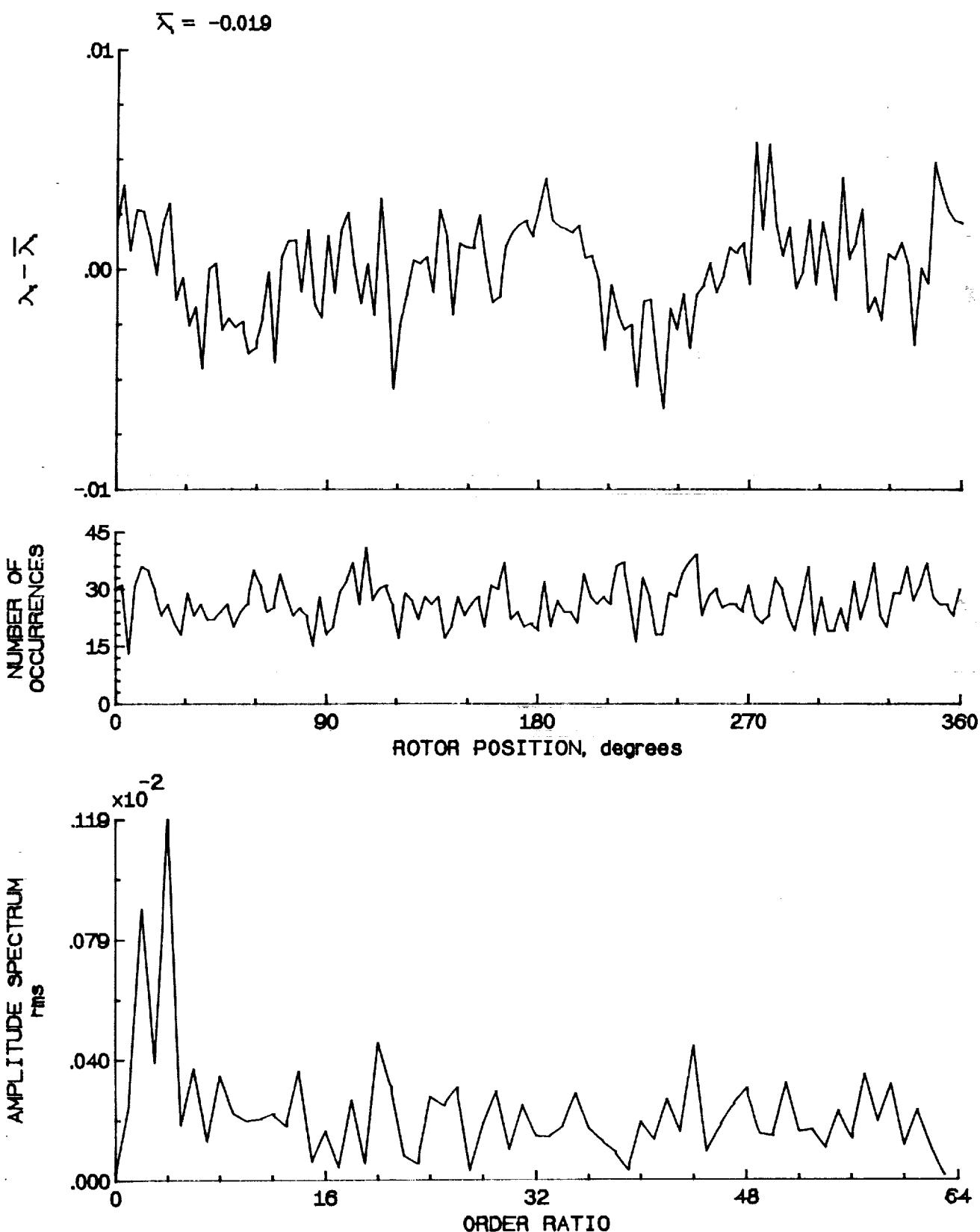


Figure 24.- Concluded.

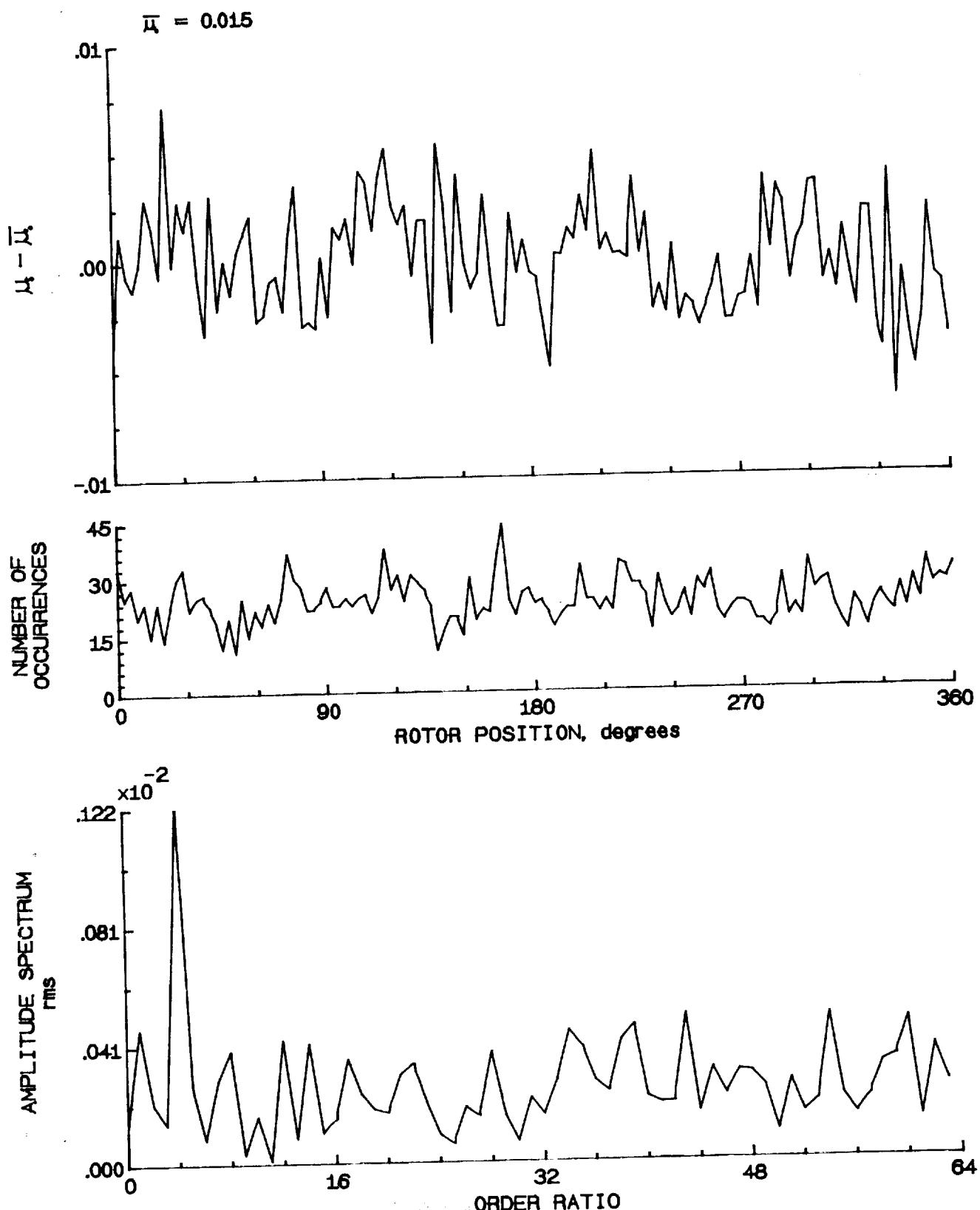


Figure 25.- Induced inflow velocity measurement
at 0 degrees and r/R of 0.50.

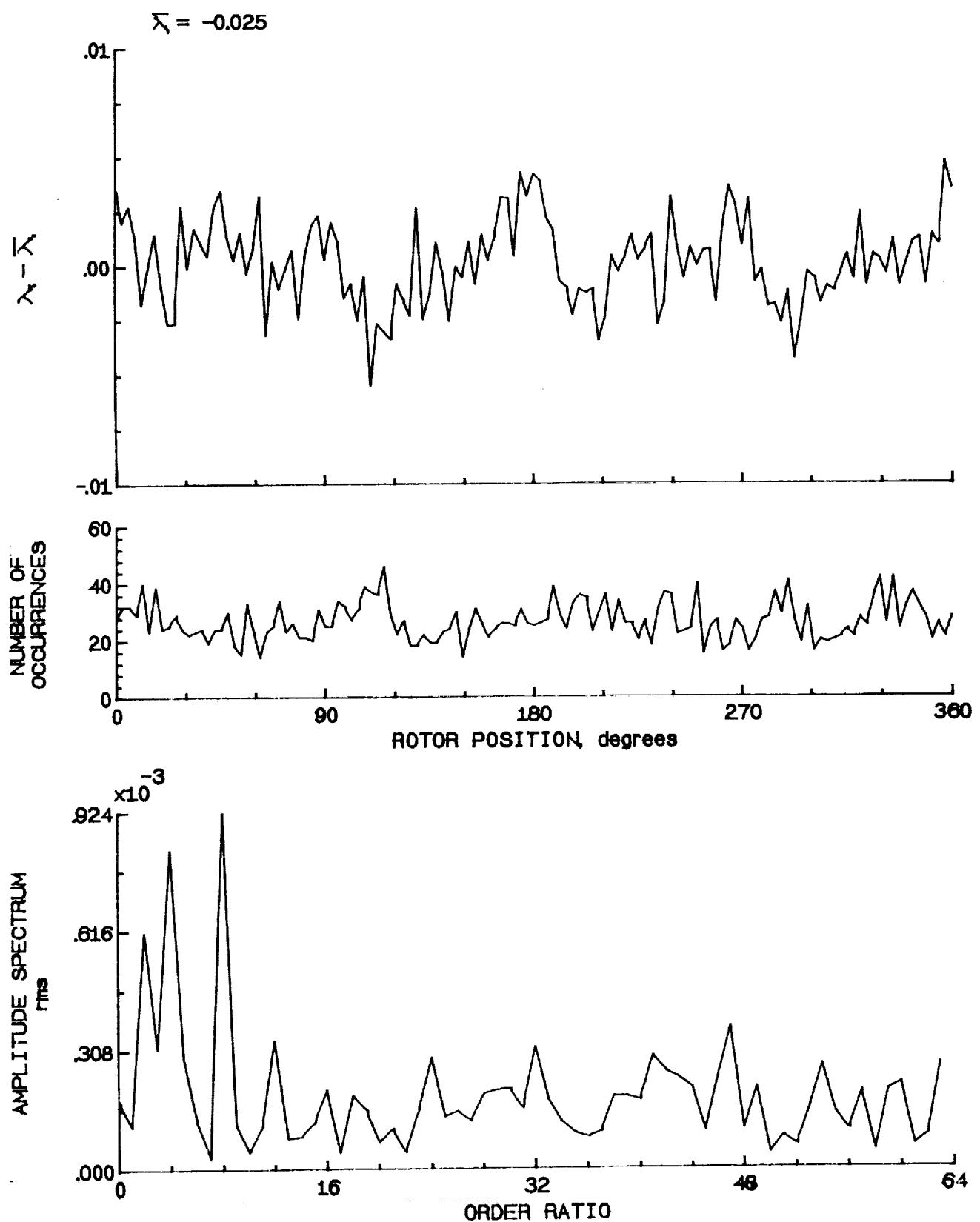


Figure 25.- Concluded.

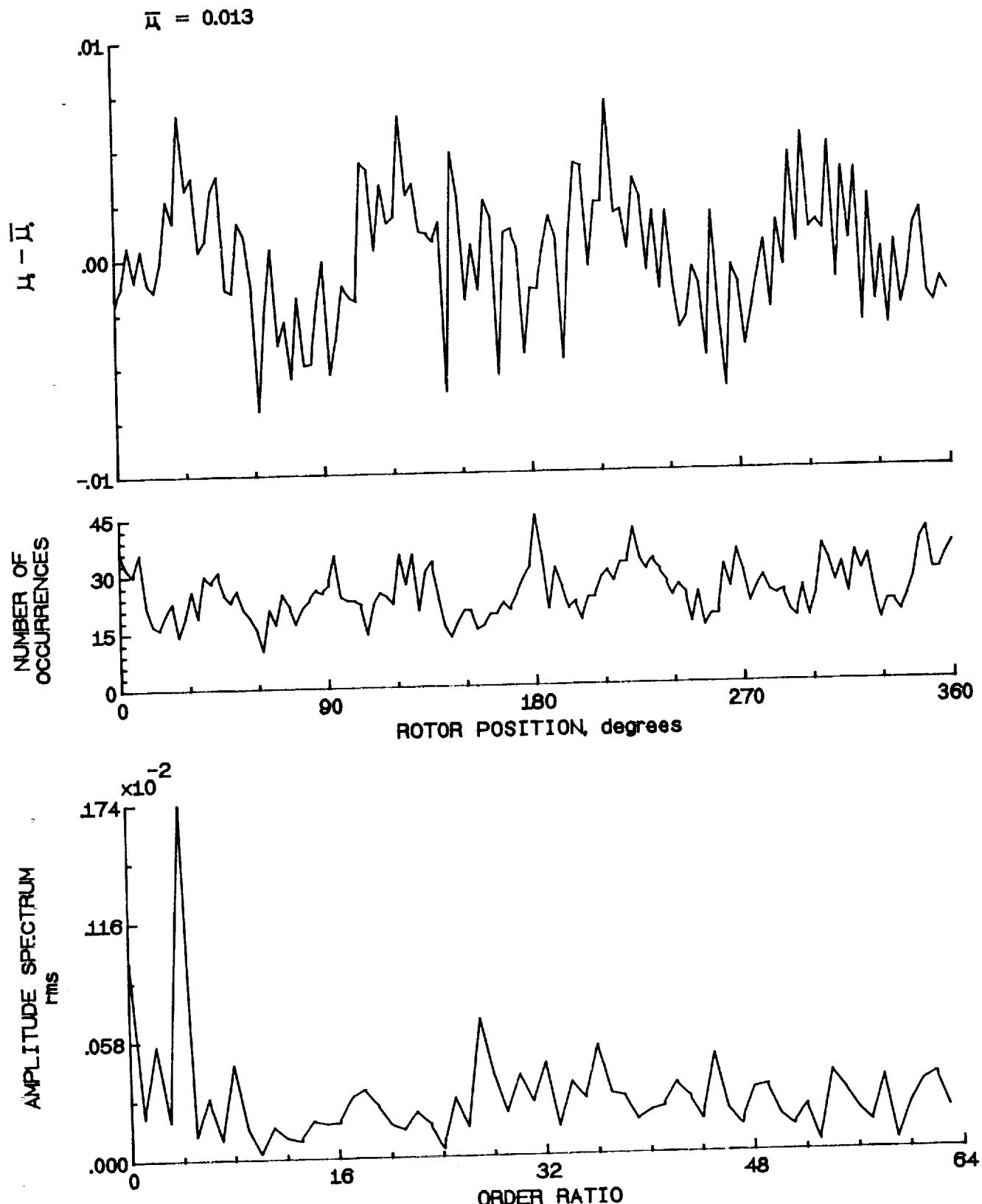


Figure 26.- Induced inflow velocity measured at 0 degrees and r/R of 0.58.

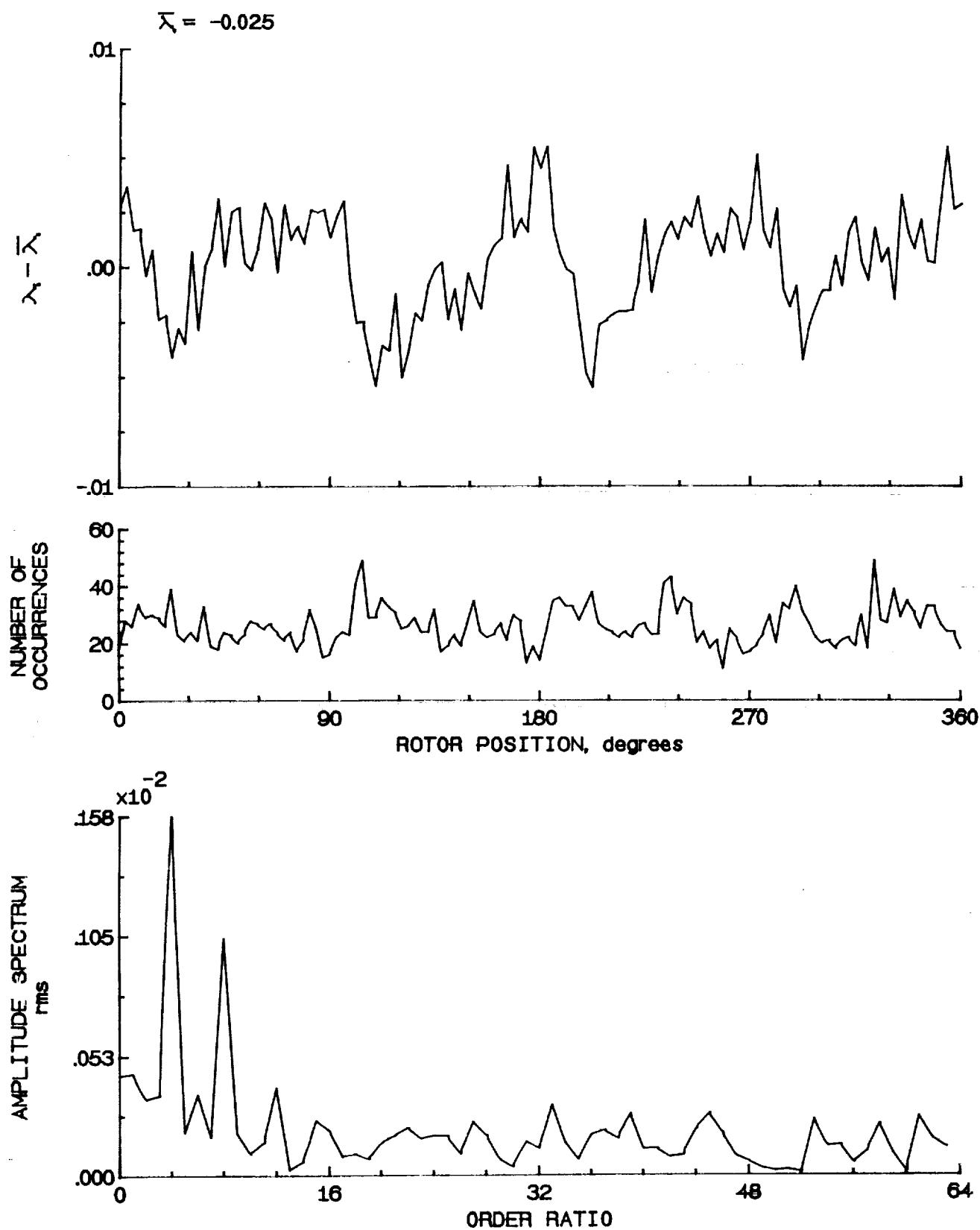


Figure 26.- Concluded.

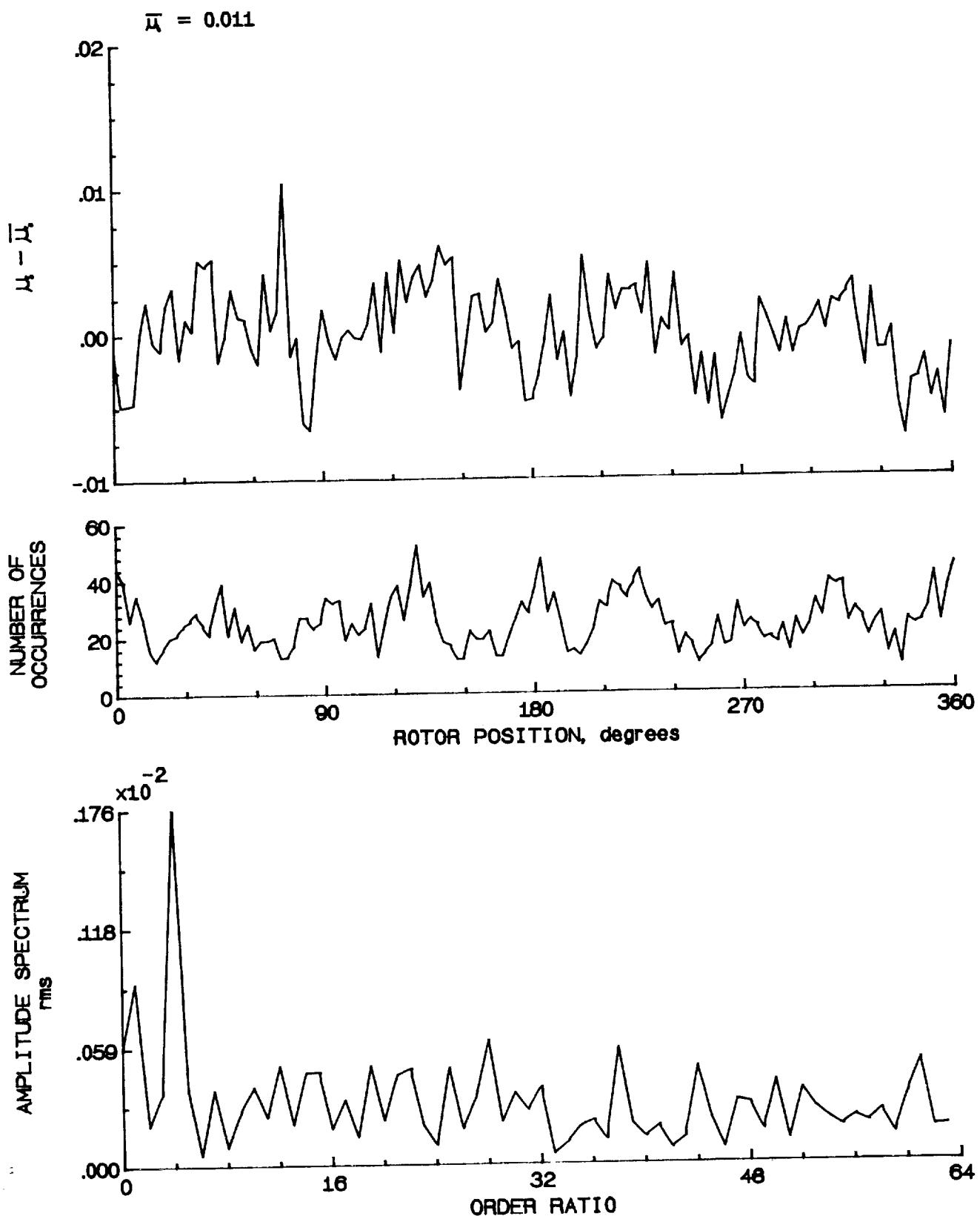


Figure 27.- Induced inflow velocity measured at 0 degrees and r/R of 0.69.

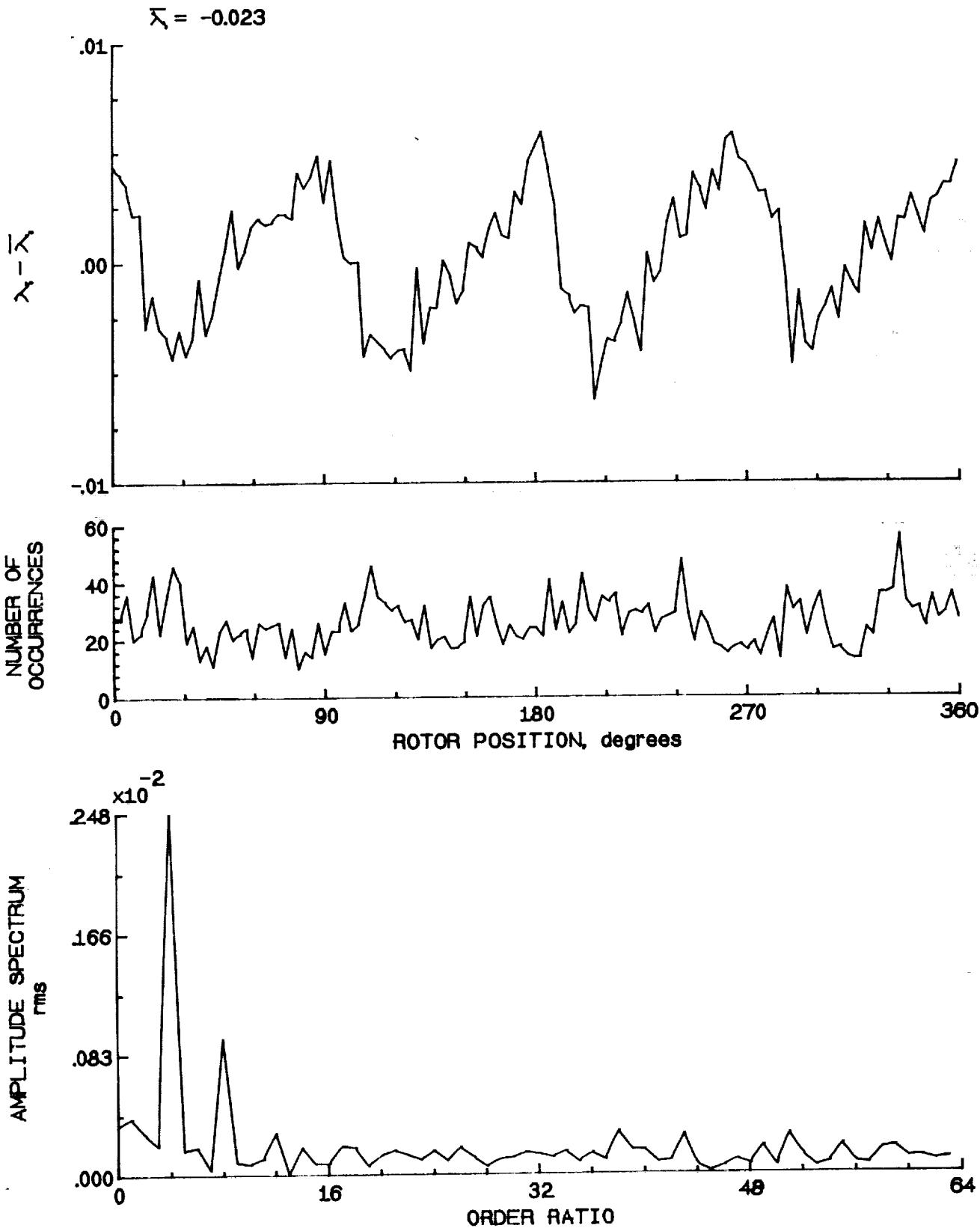


Figure 27.- Concluded.

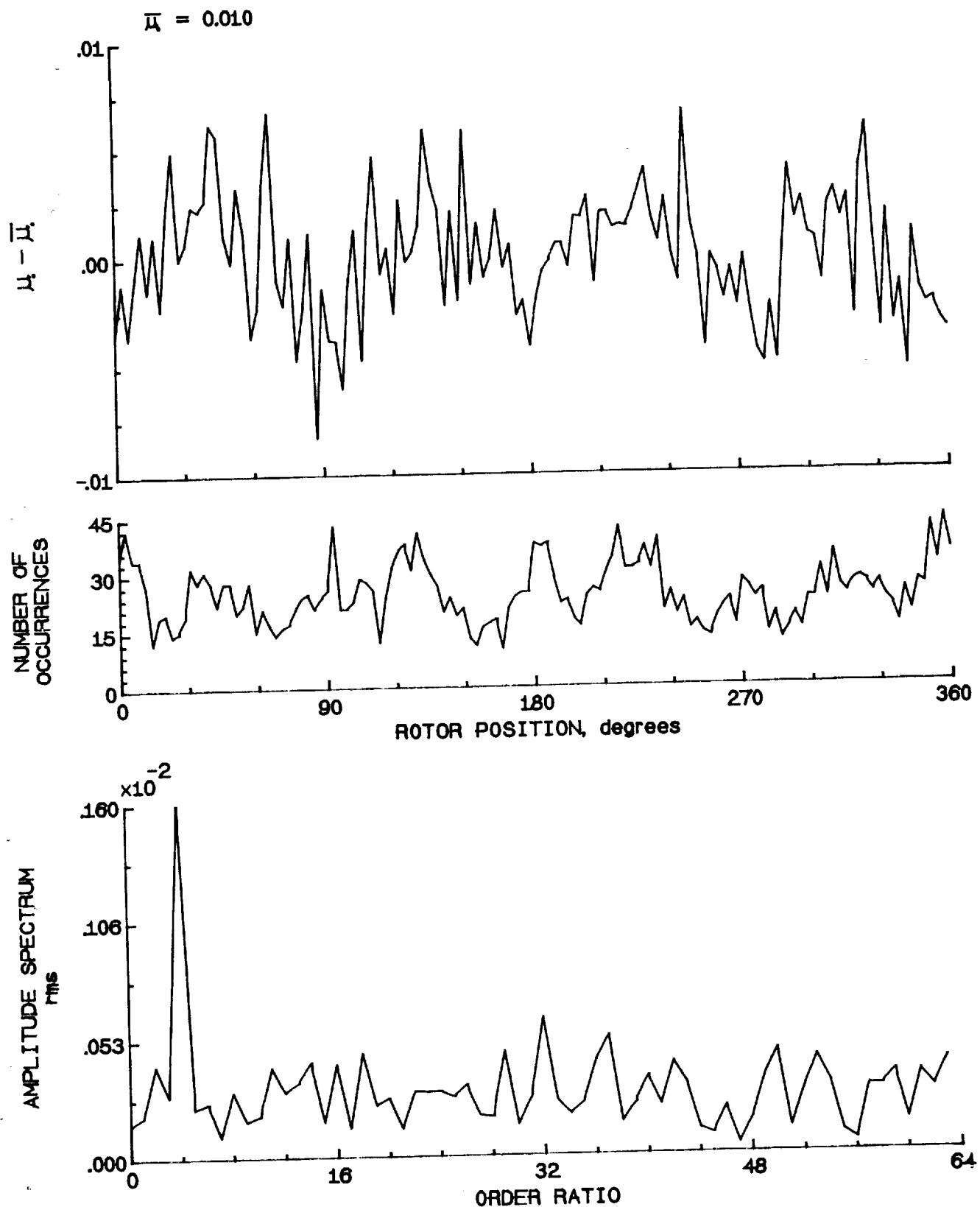


Figure 28.- Induced inflow velocity measured at 0 degrees and r/R of 0.73.

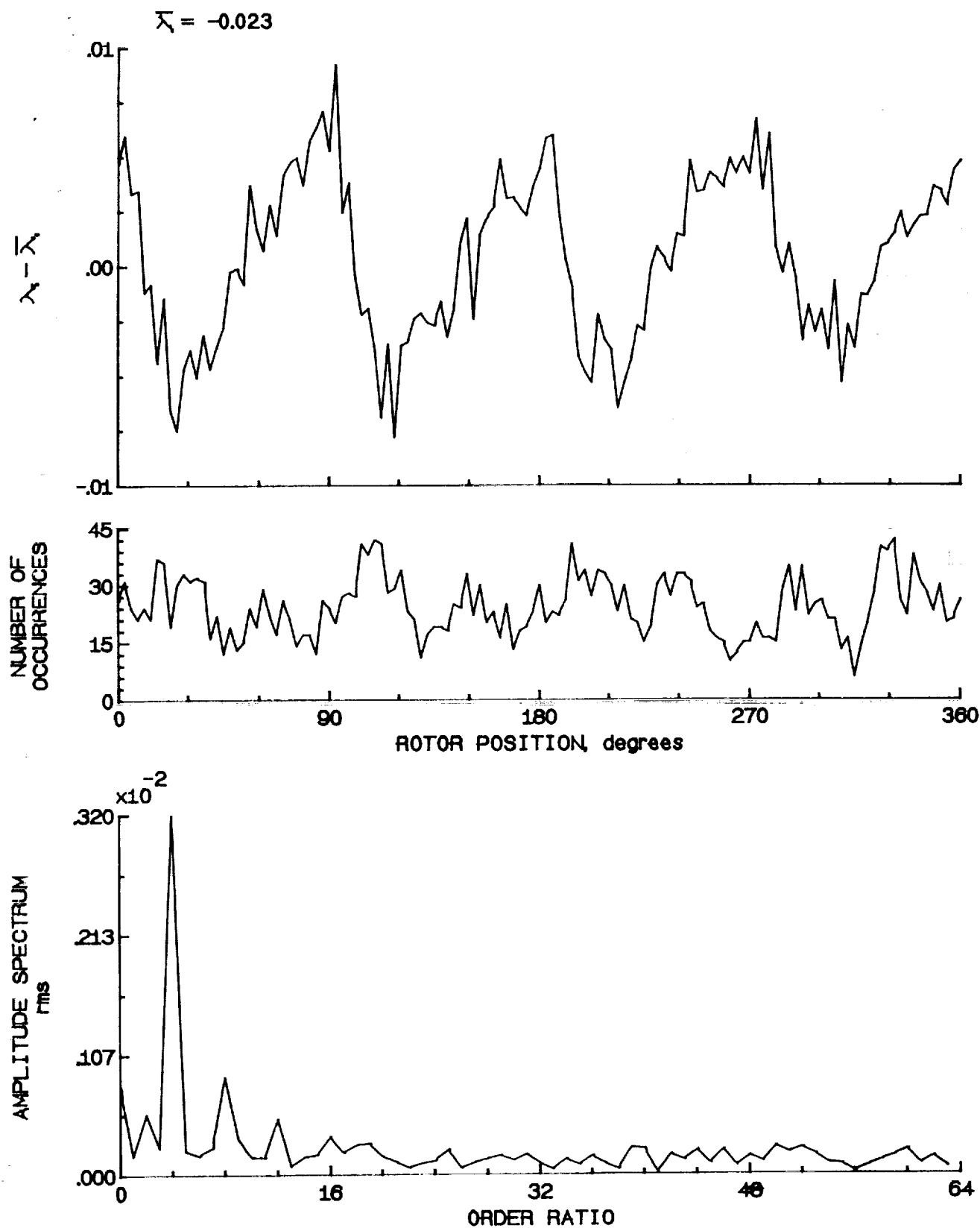


Figure 28.- Concluded.

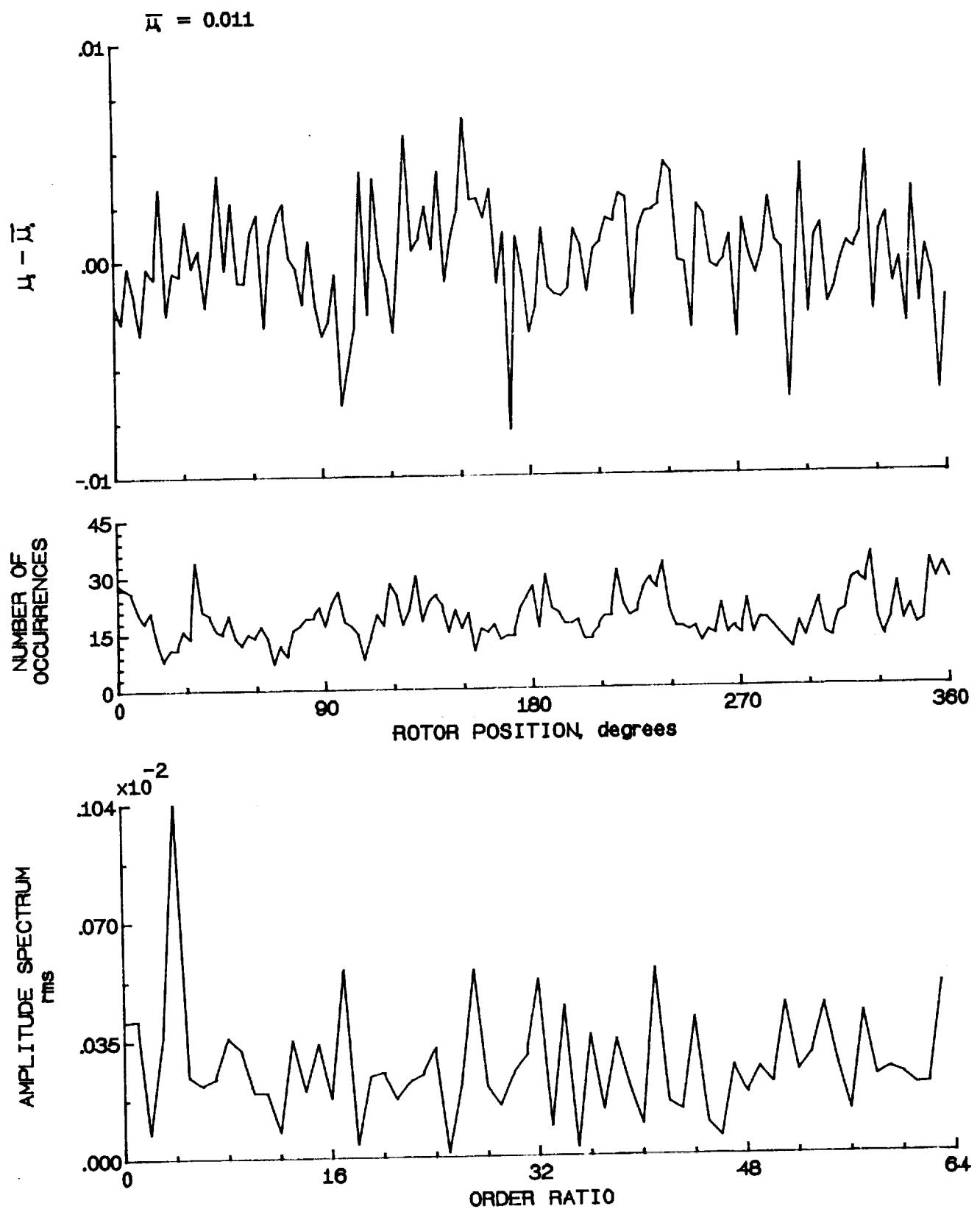


Figure 29.- Induced inflow velocity measured at 0 degrees and r/R of 0.75.

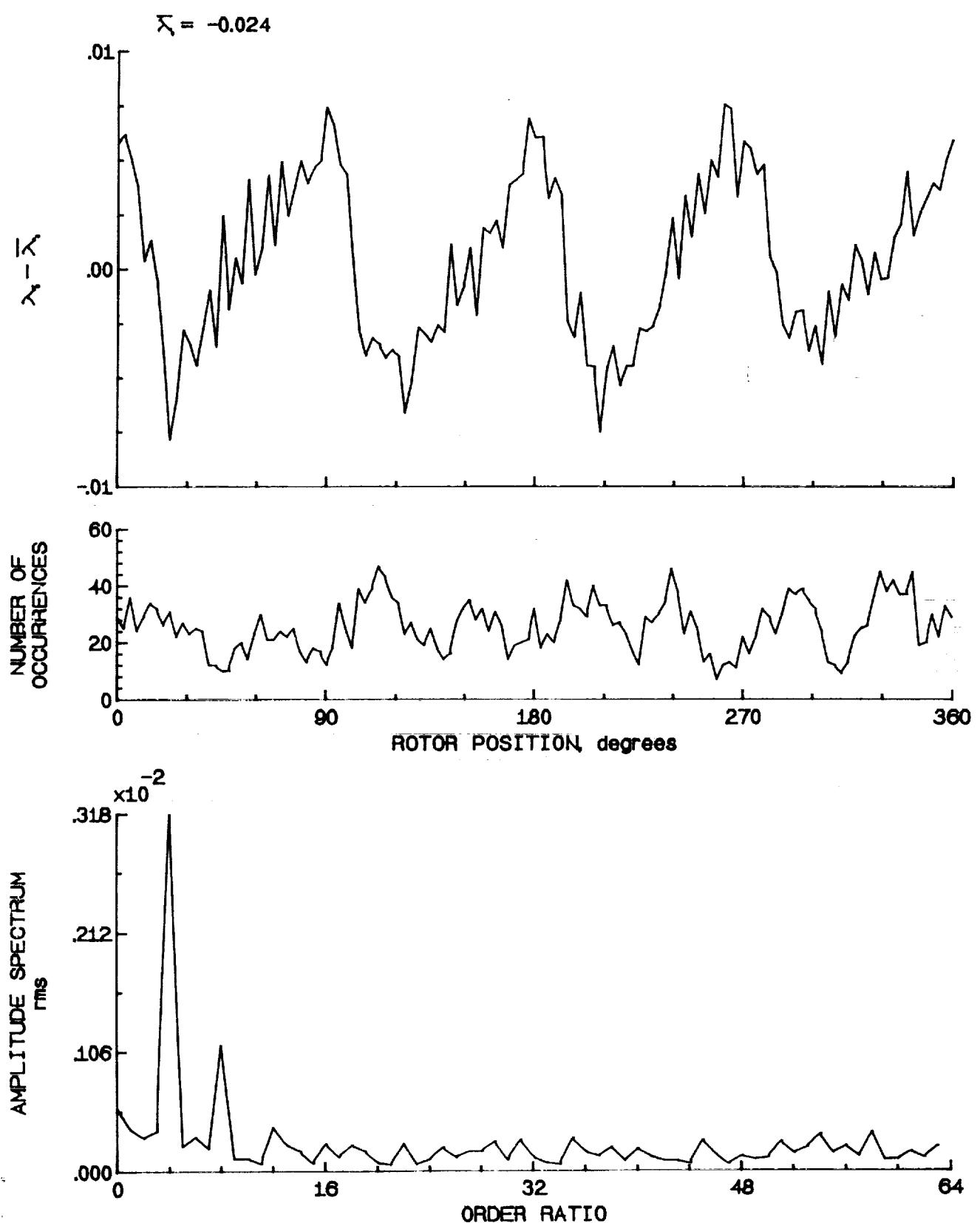


Figure 29.- Concluded.

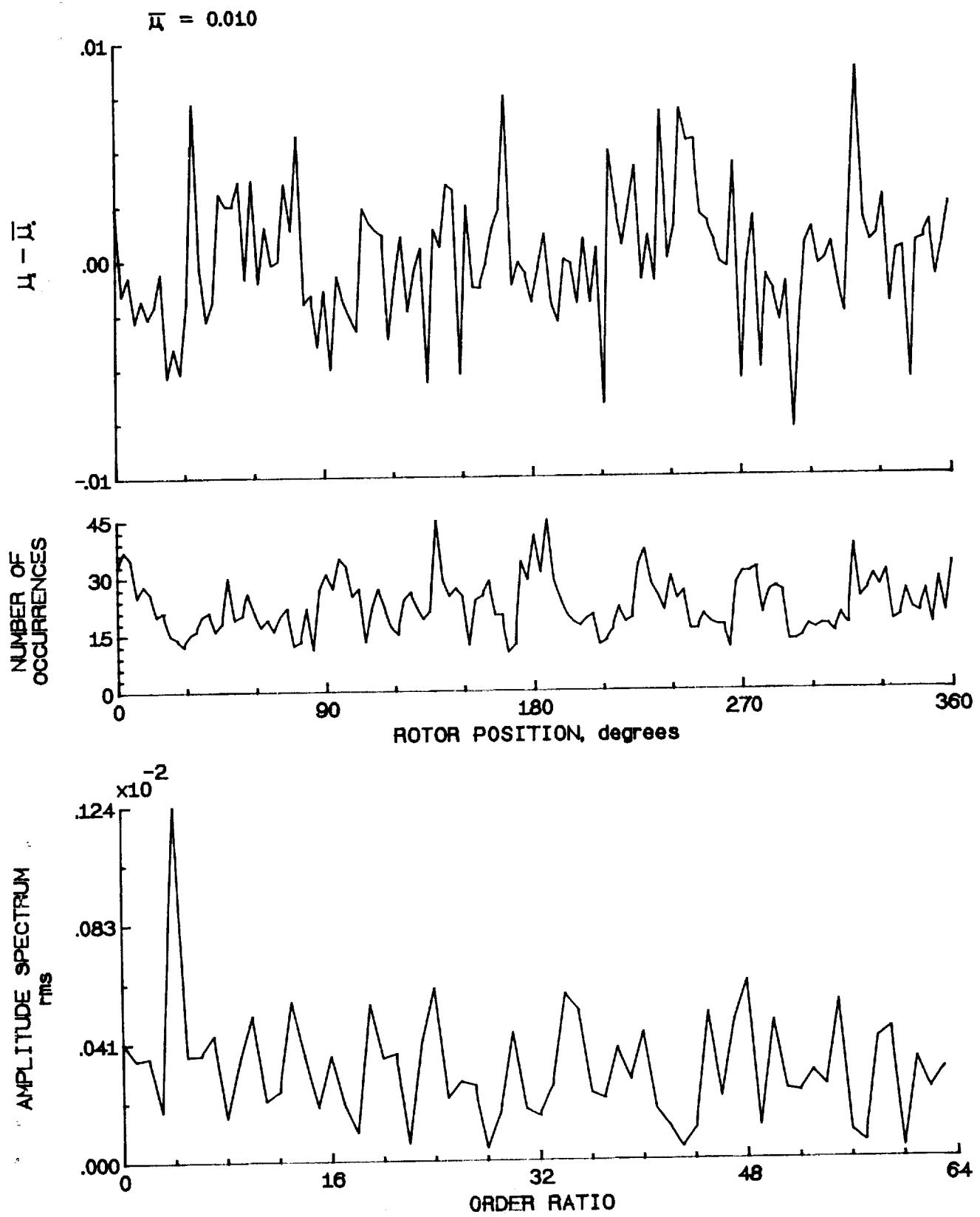


Figure 30.- Induced inflow velocity measured at 0 degrees and r/R of 0.86.

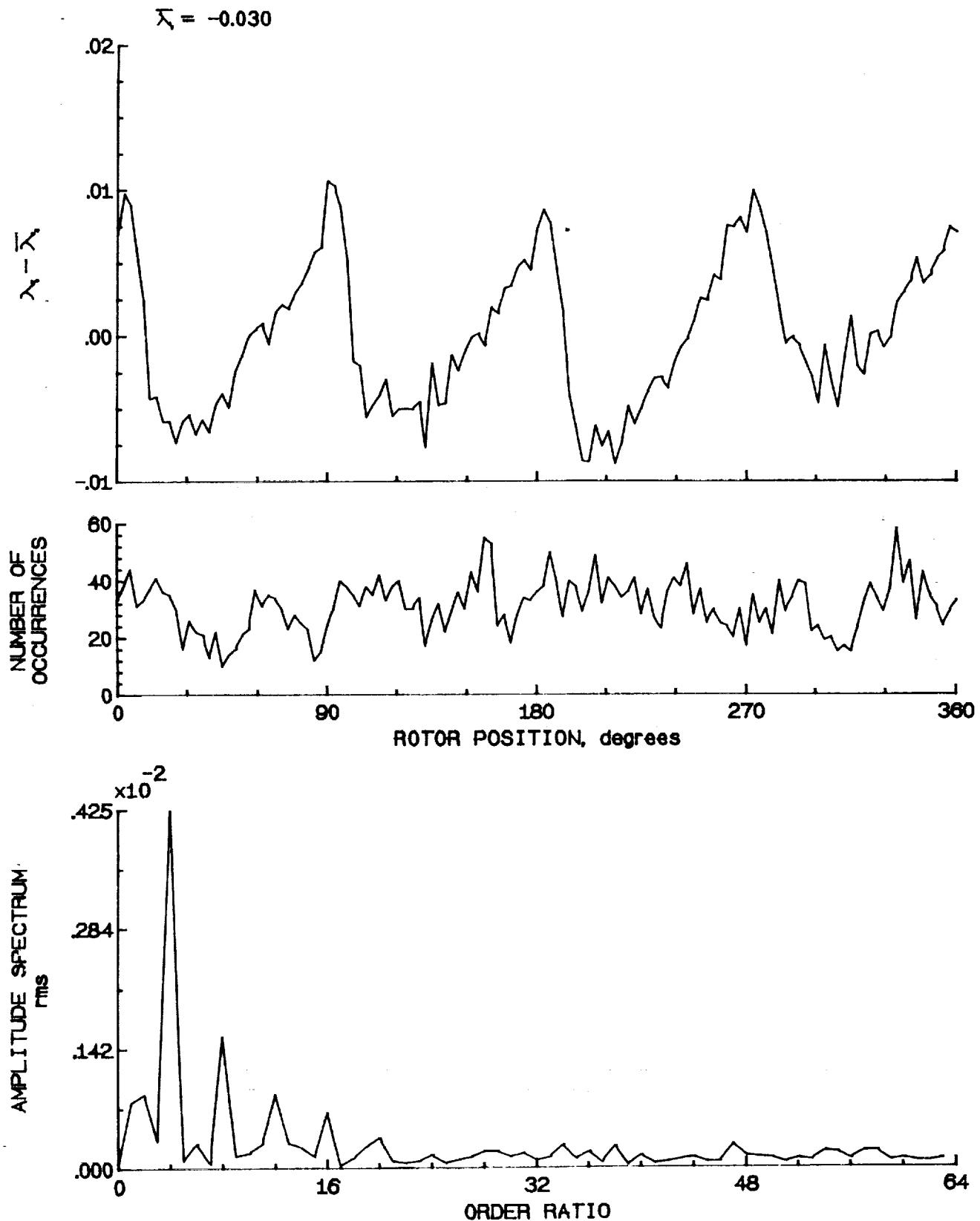


Figure 30.- Concluded.

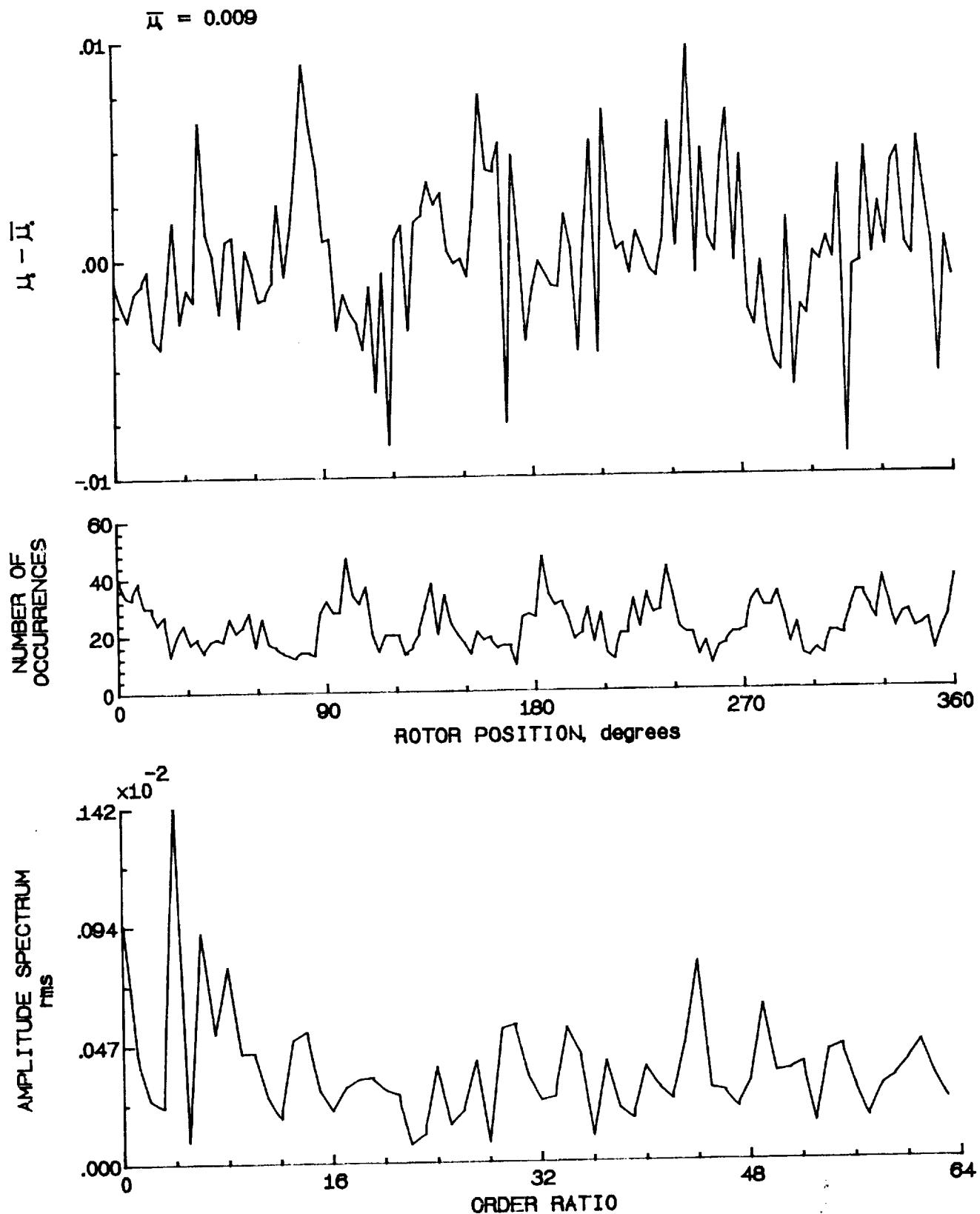


Figure 31.- Induced inflow velocity measured at 0 degrees and r/R of 0.90.

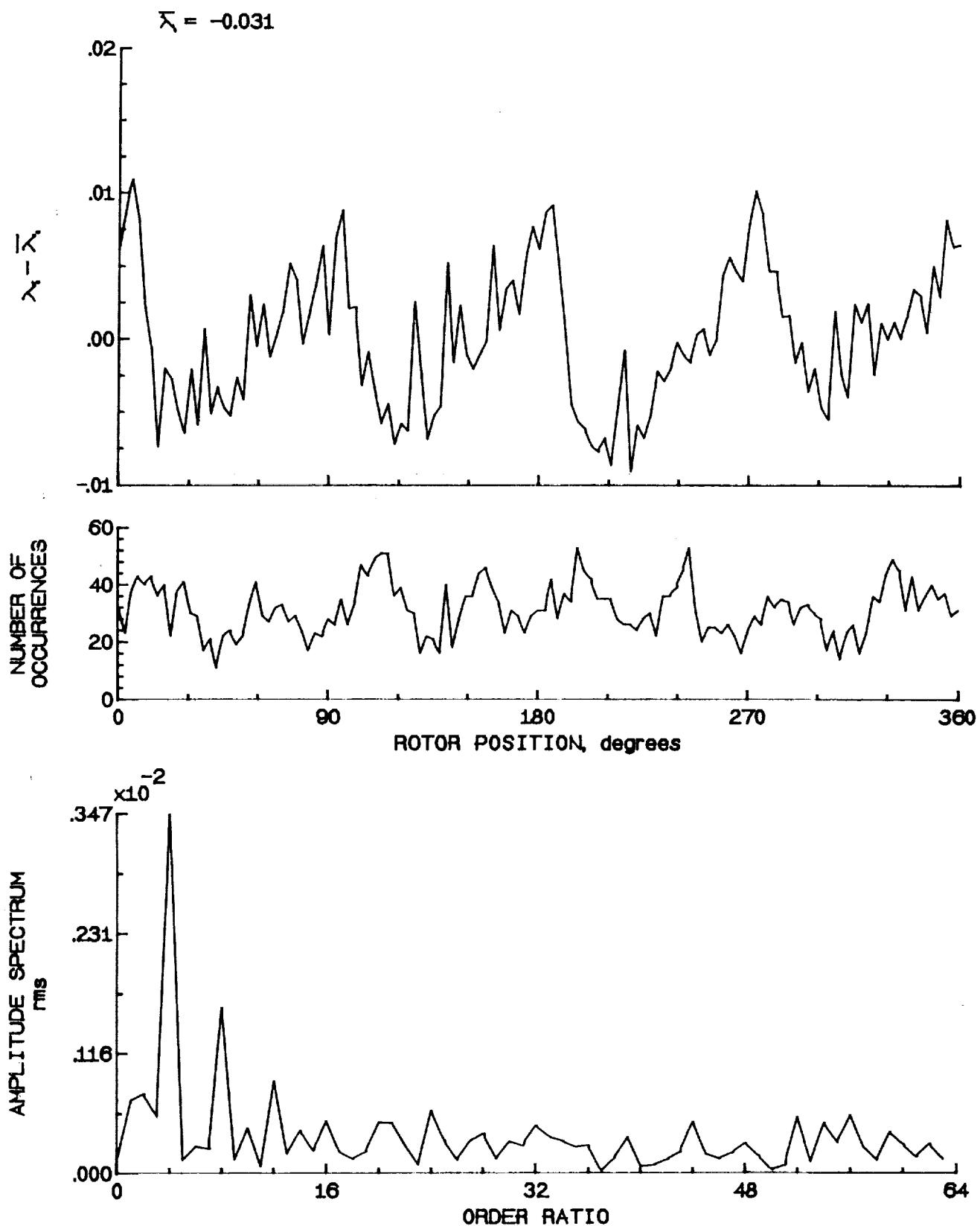


Figure 31.- Concluded.

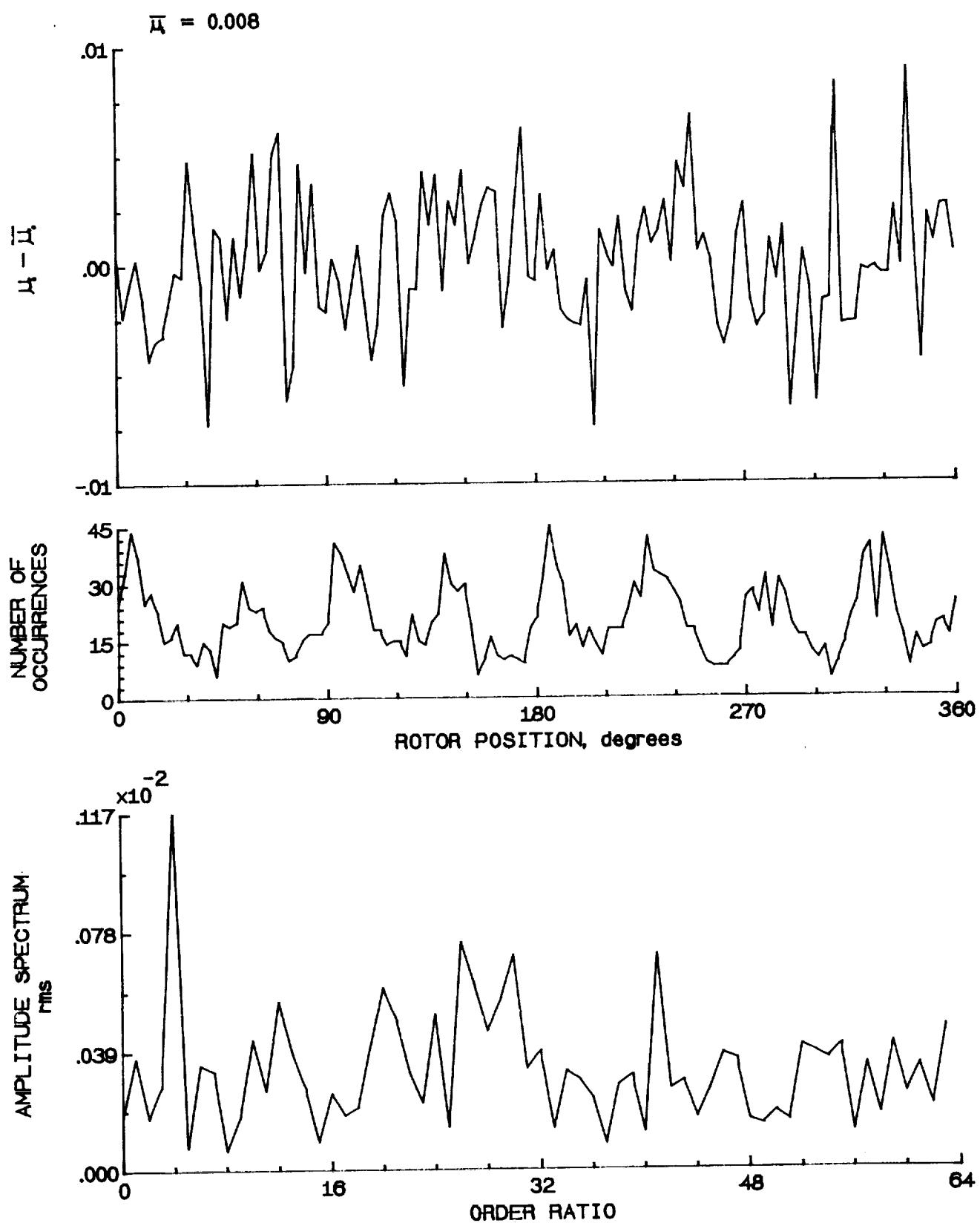


Figure 32.- Induced inflow velocity measured at 0 degrees and r/R of 0.94.

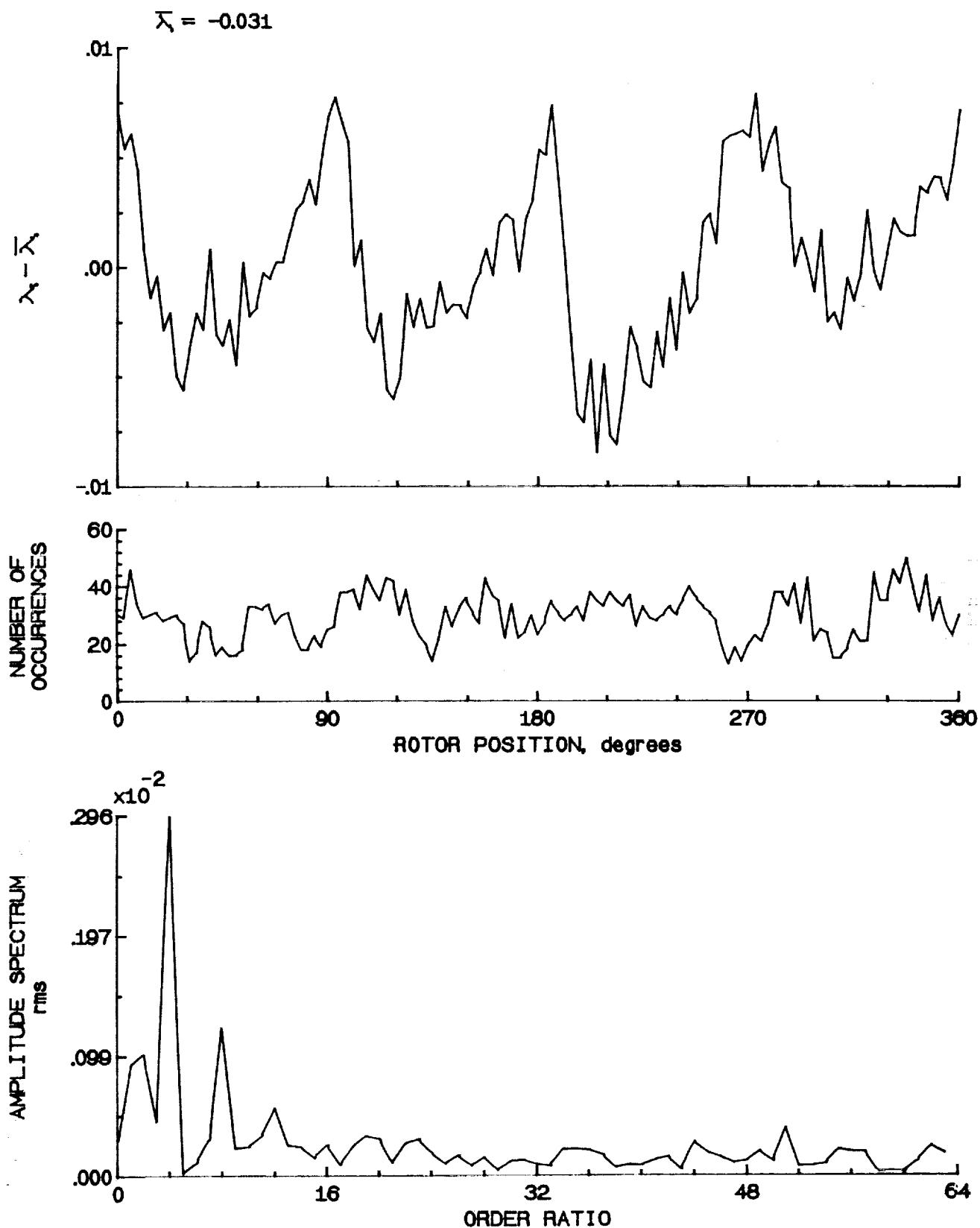


Figure 32.- Concluded.

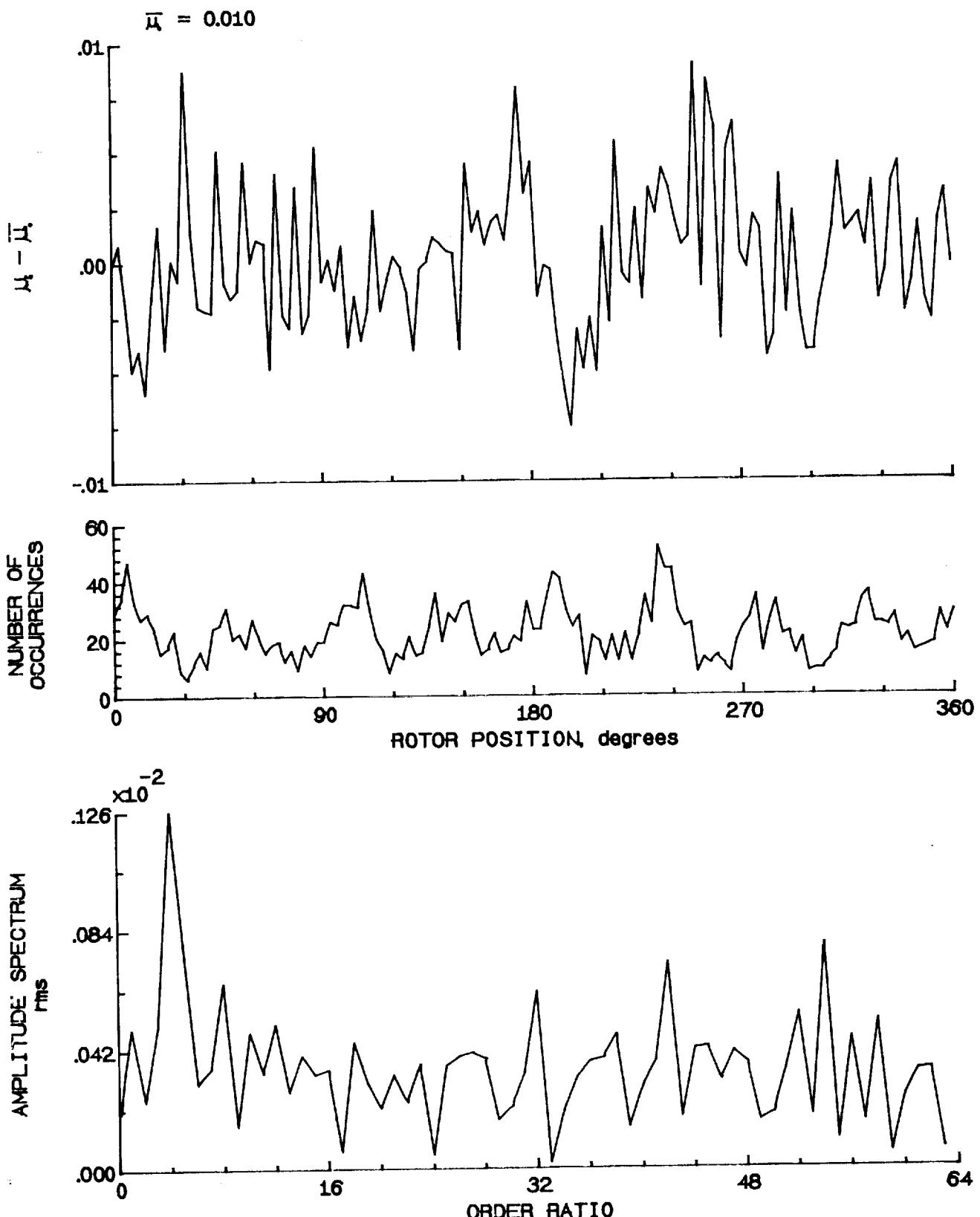


Figure 33.- Induced inflow velocity measured at 0 degrees and r/R of 0.96.

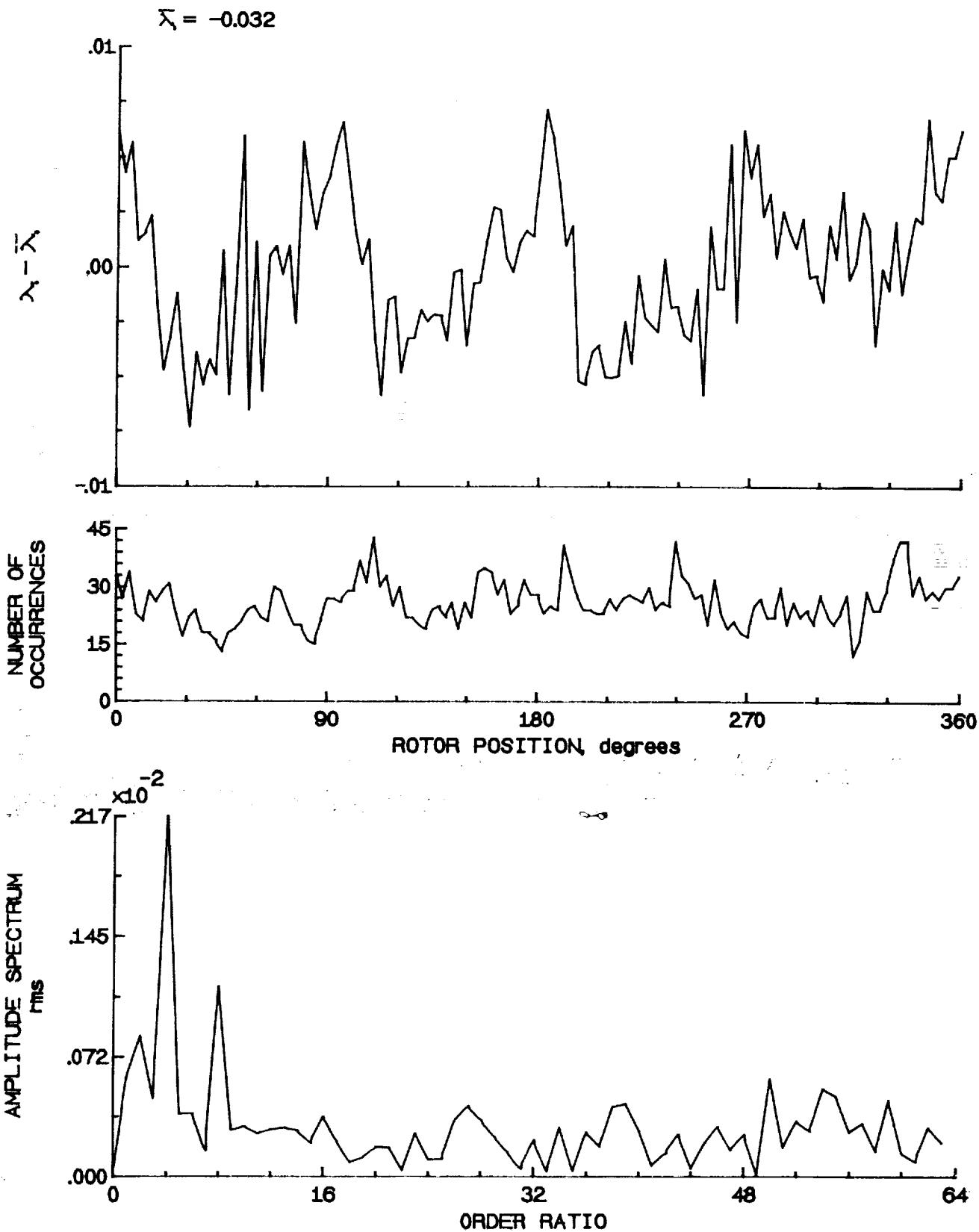


Figure 33.- Concluded.

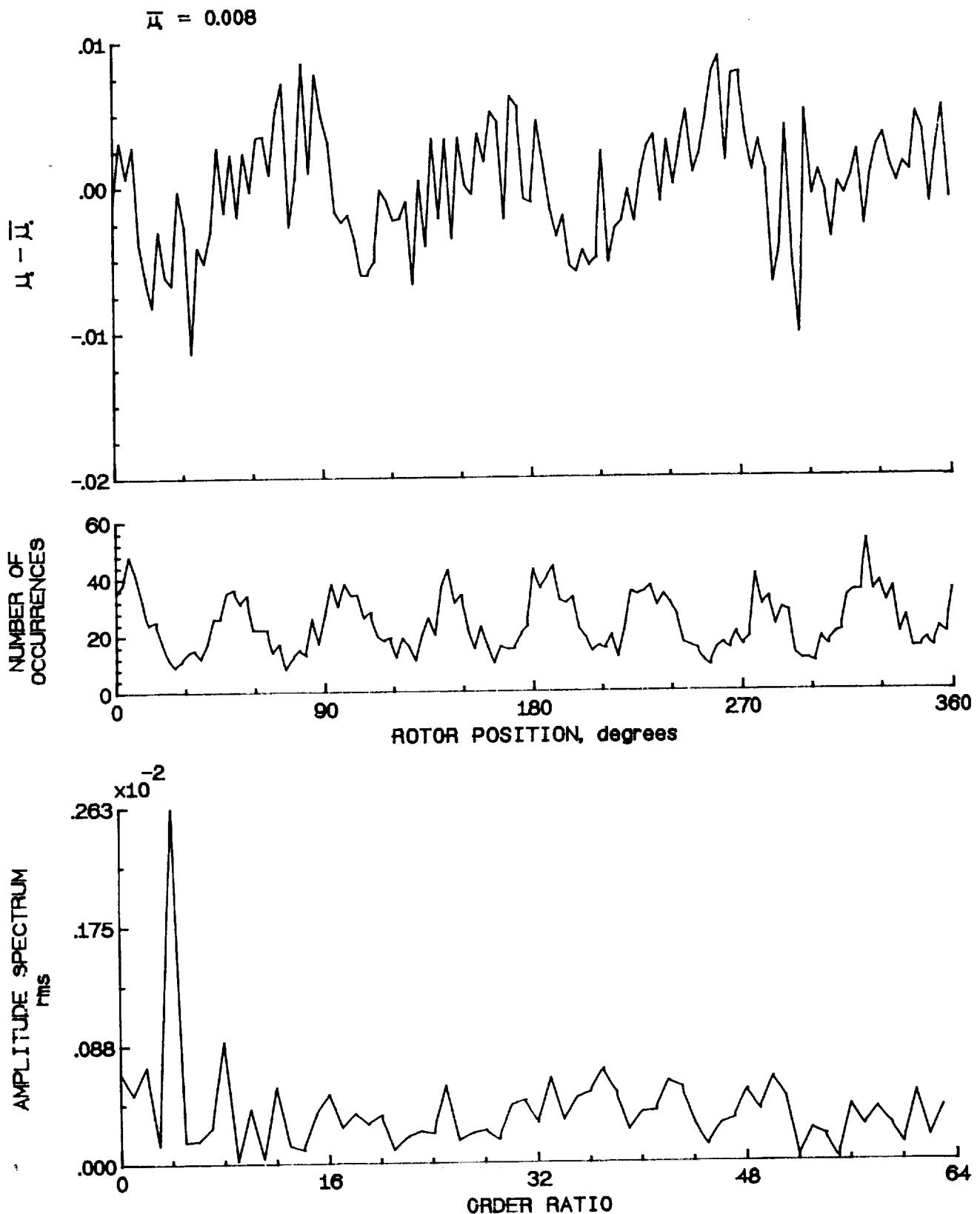


Figure 34.- Induced inflow velocity measured at
0 degrees and r/R of 1.00.

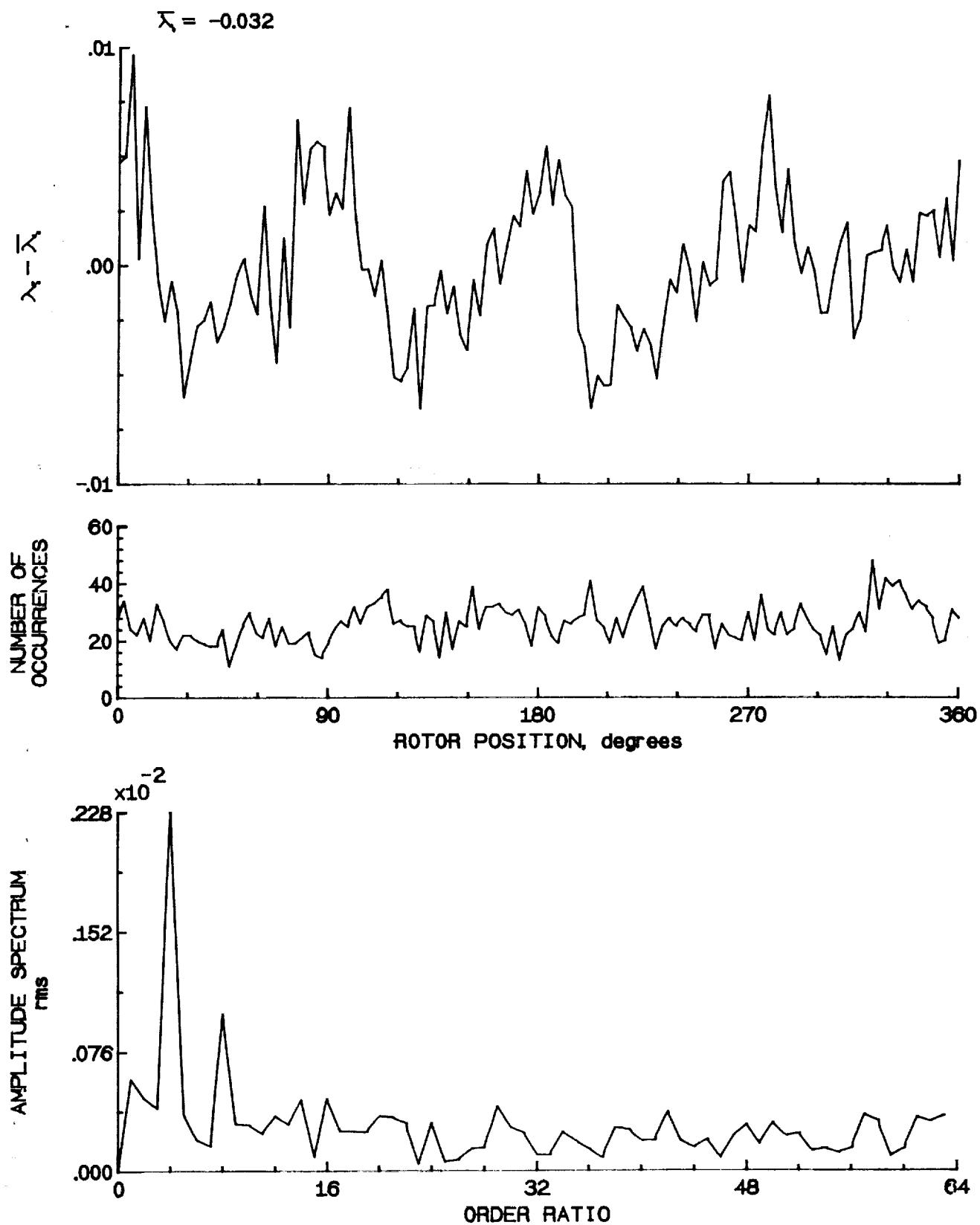


Figure 34.- Concluded.

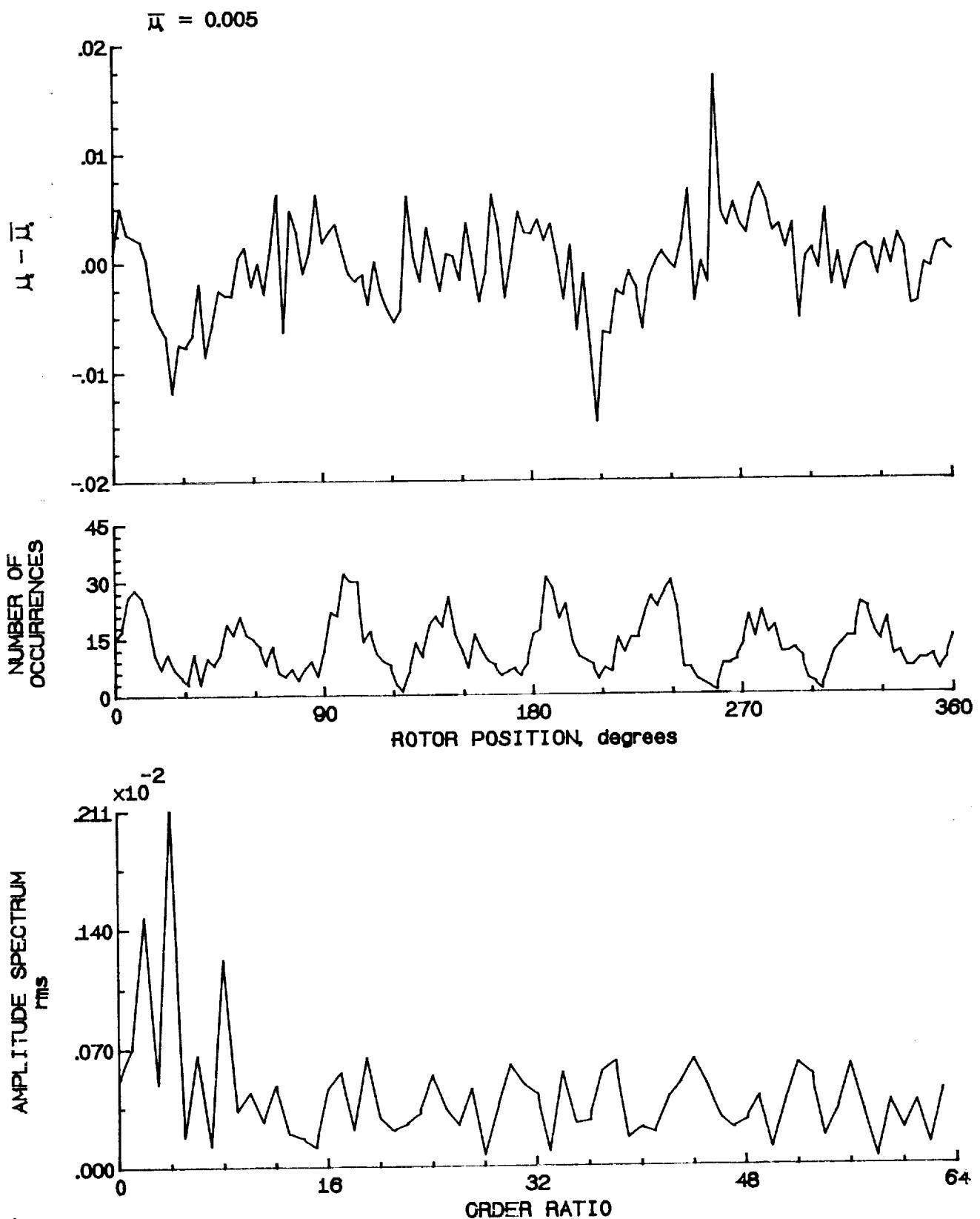


Figure 35.- Induced inflow velocity measured at 0 degrees and r/R of 1.10.

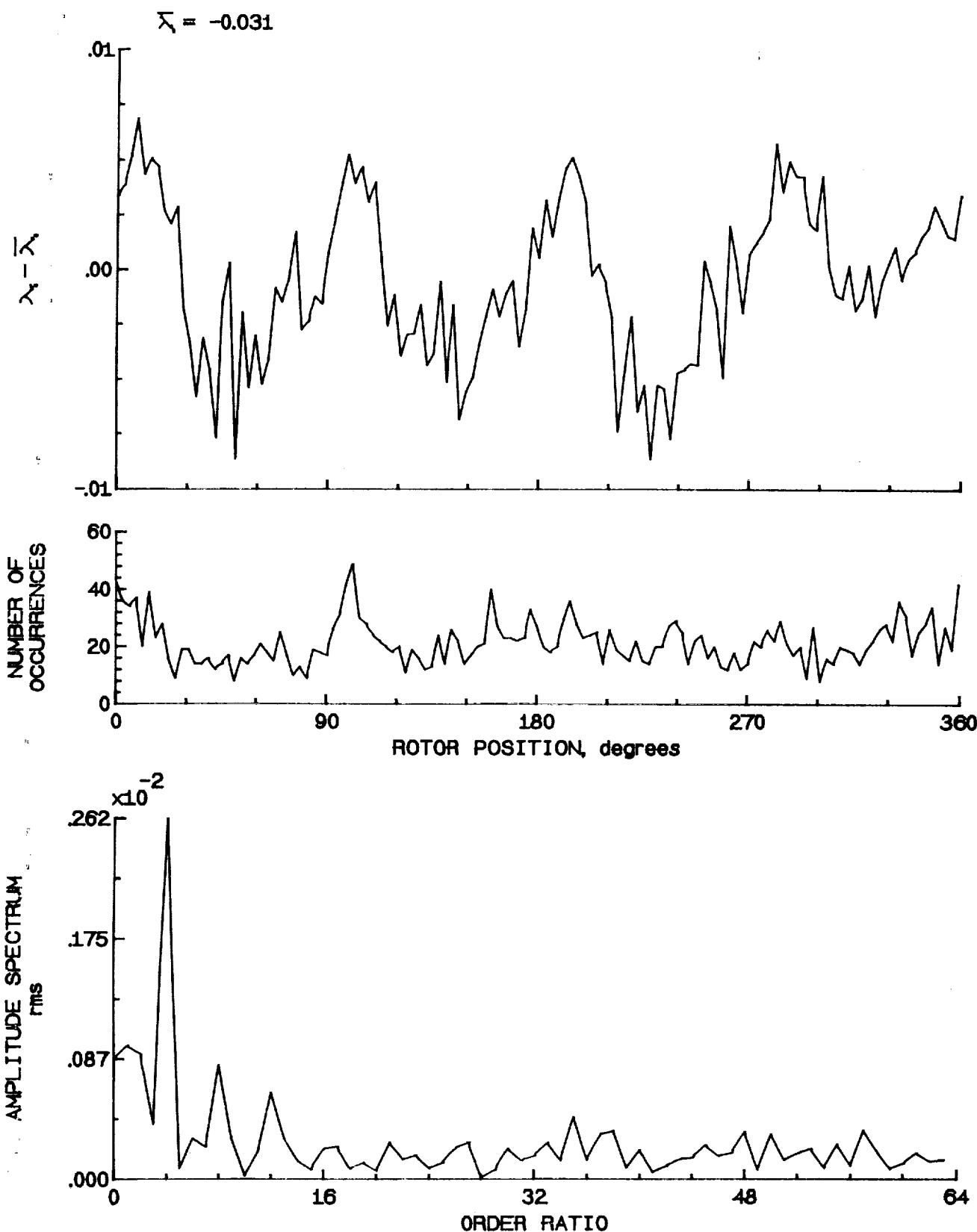


Figure 35.- Concluded.

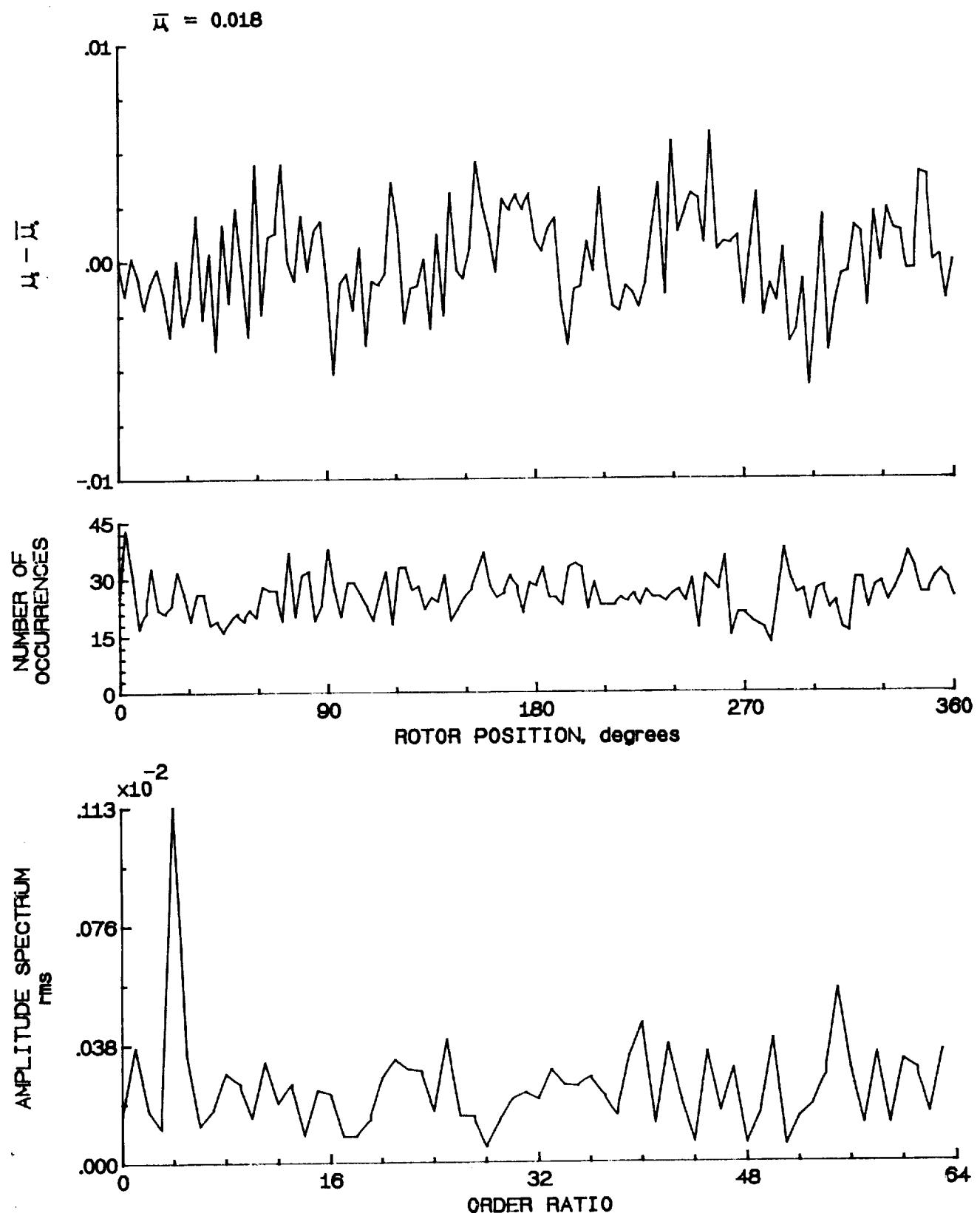


Figure 36.- Induced inflow velocity measured at 30 degrees and r/R of 0.20.

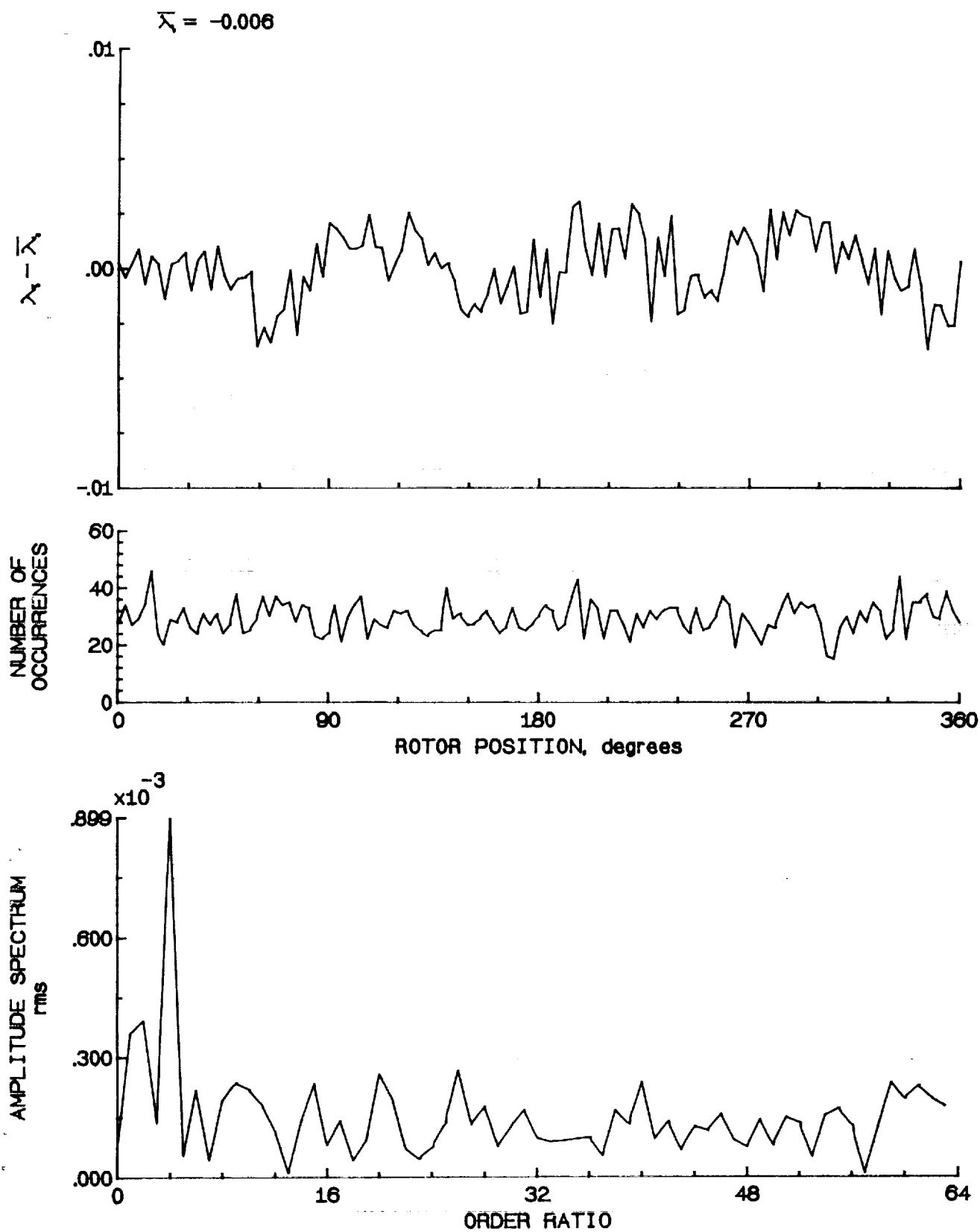


Figure 36.- Concluded.

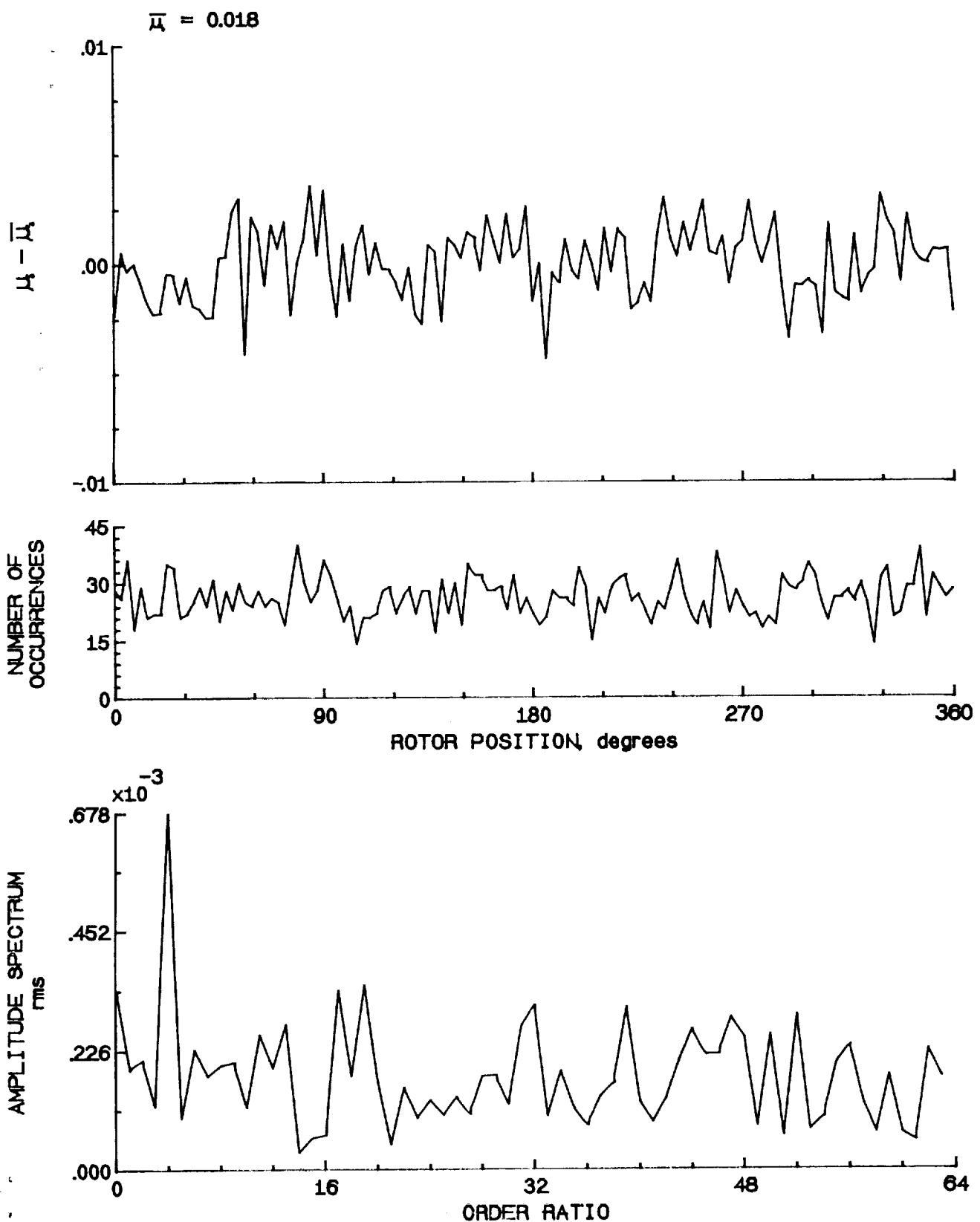


Figure 37.- Induced inflow velocity measured at 30 degrees and r/R of 0.32.

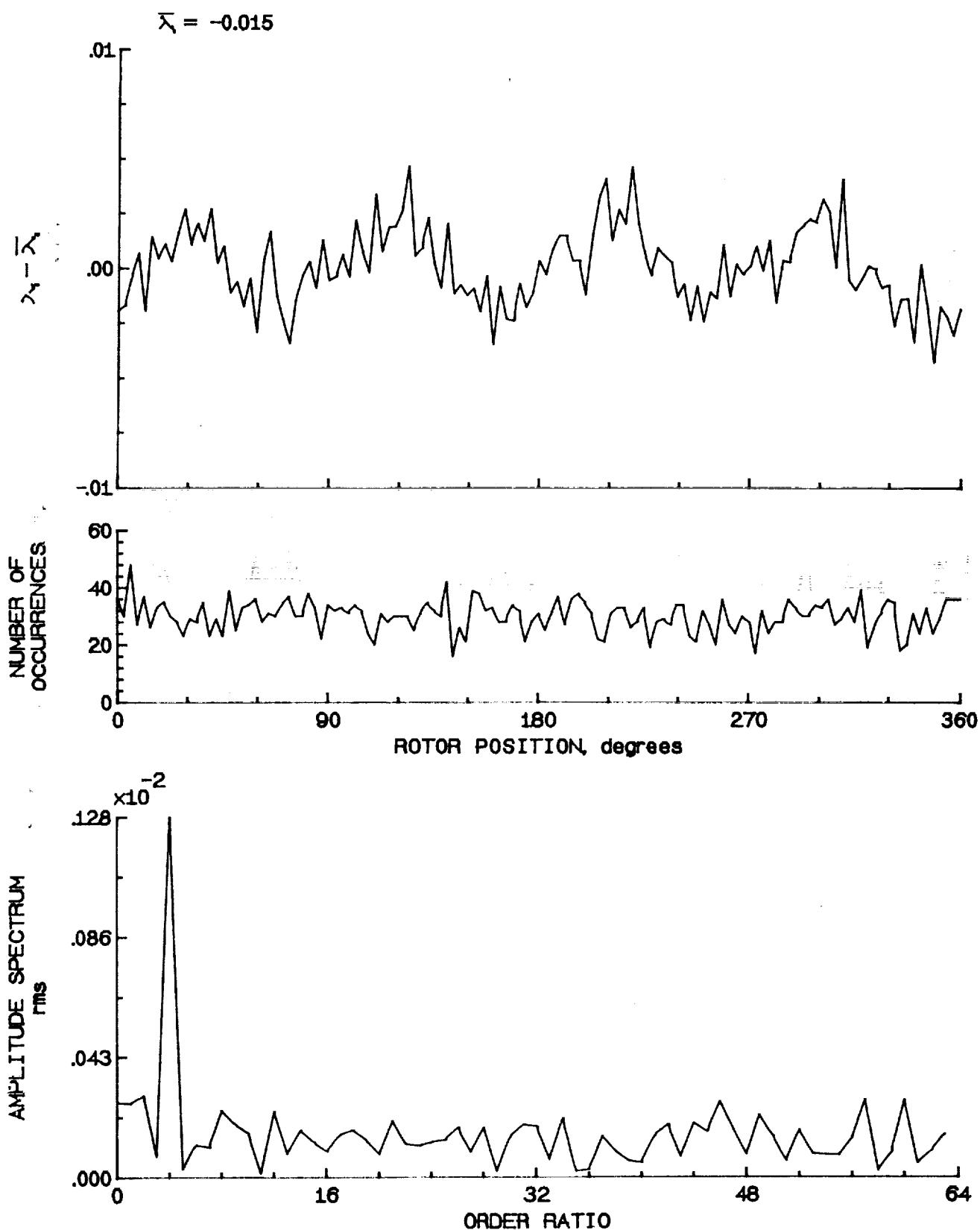


Figure 37.- Concluded.

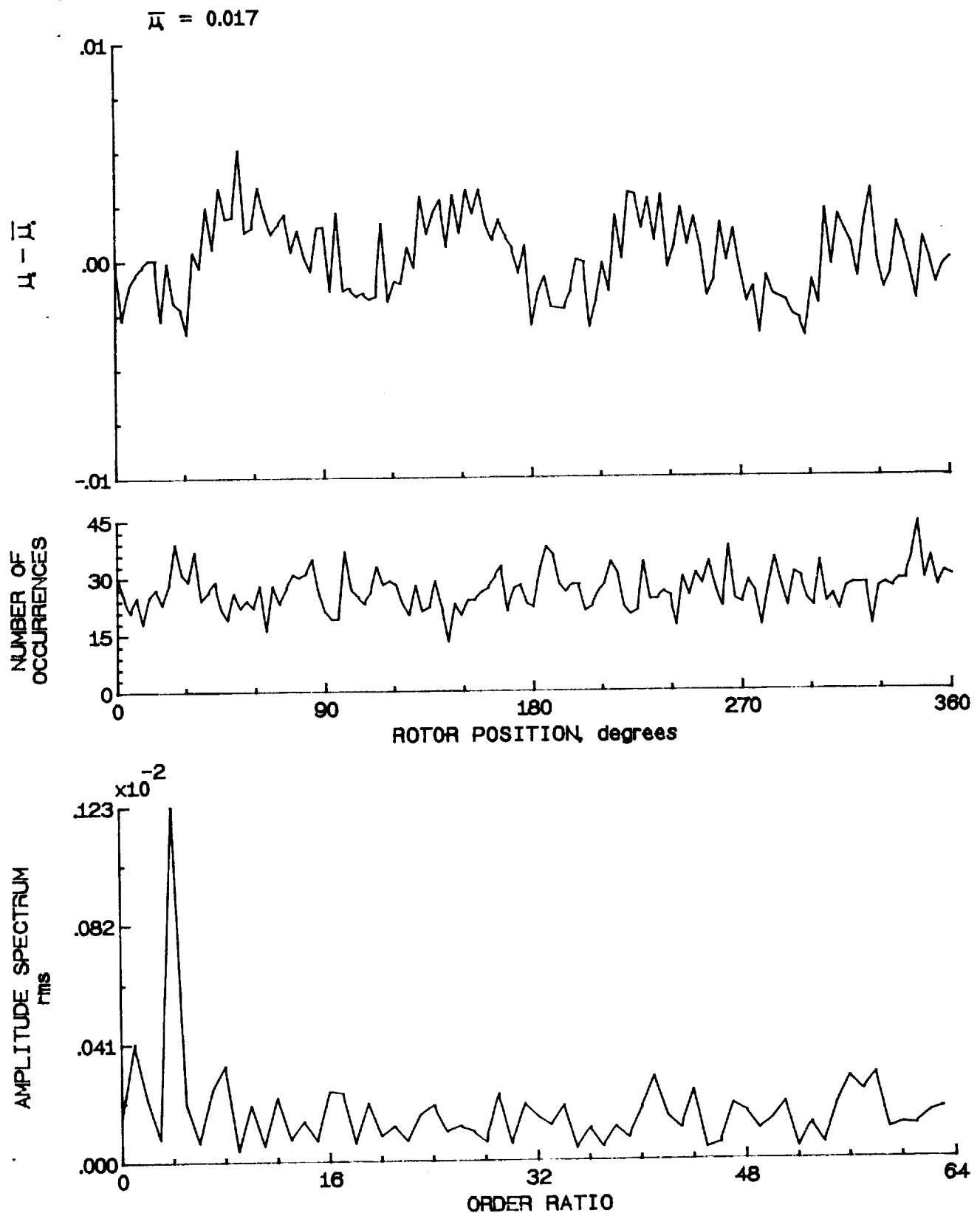


Figure 38.— Induced inflow velocity measured at 30 degrees and r/R of 0.50.

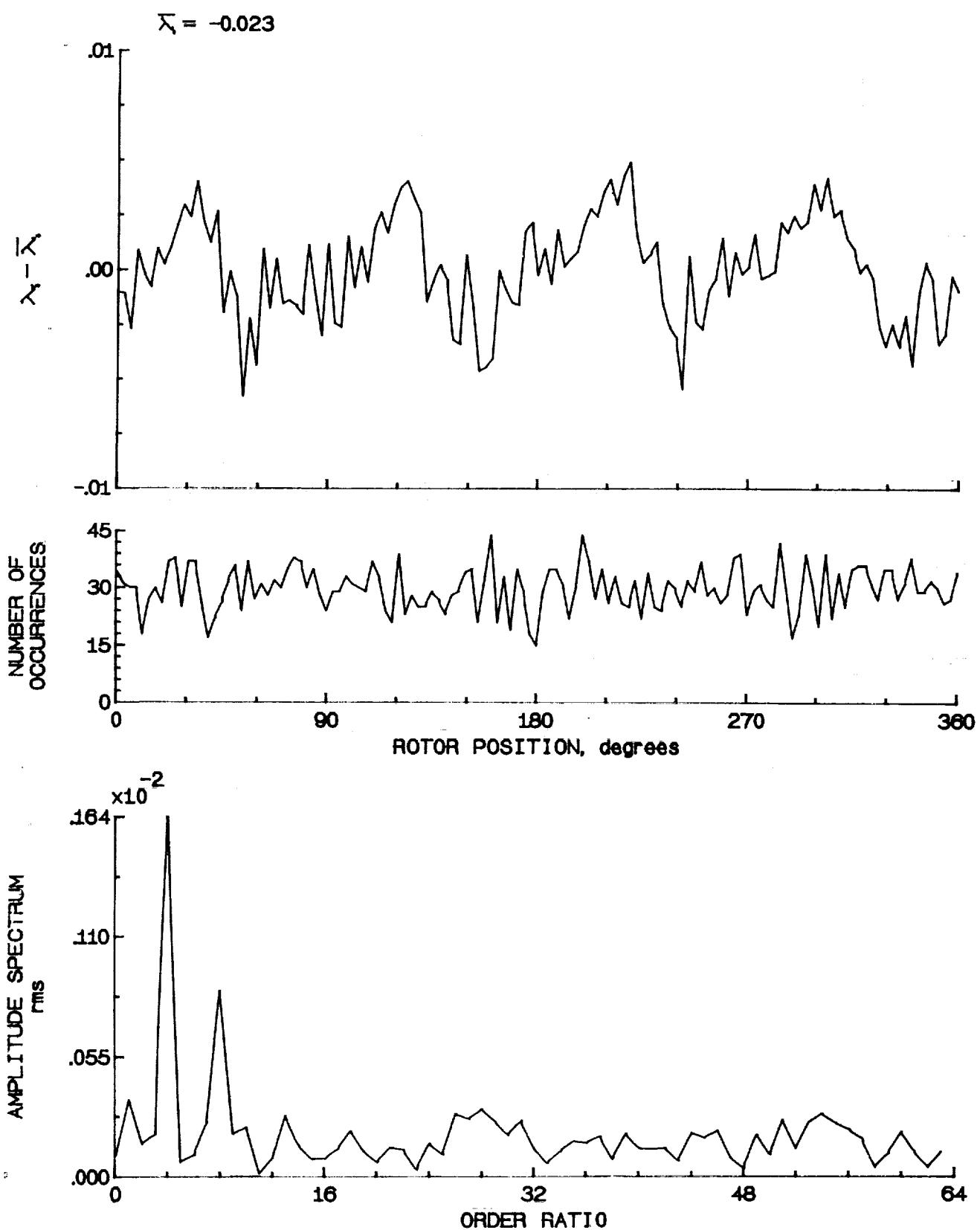


Figure 38.- Concluded.

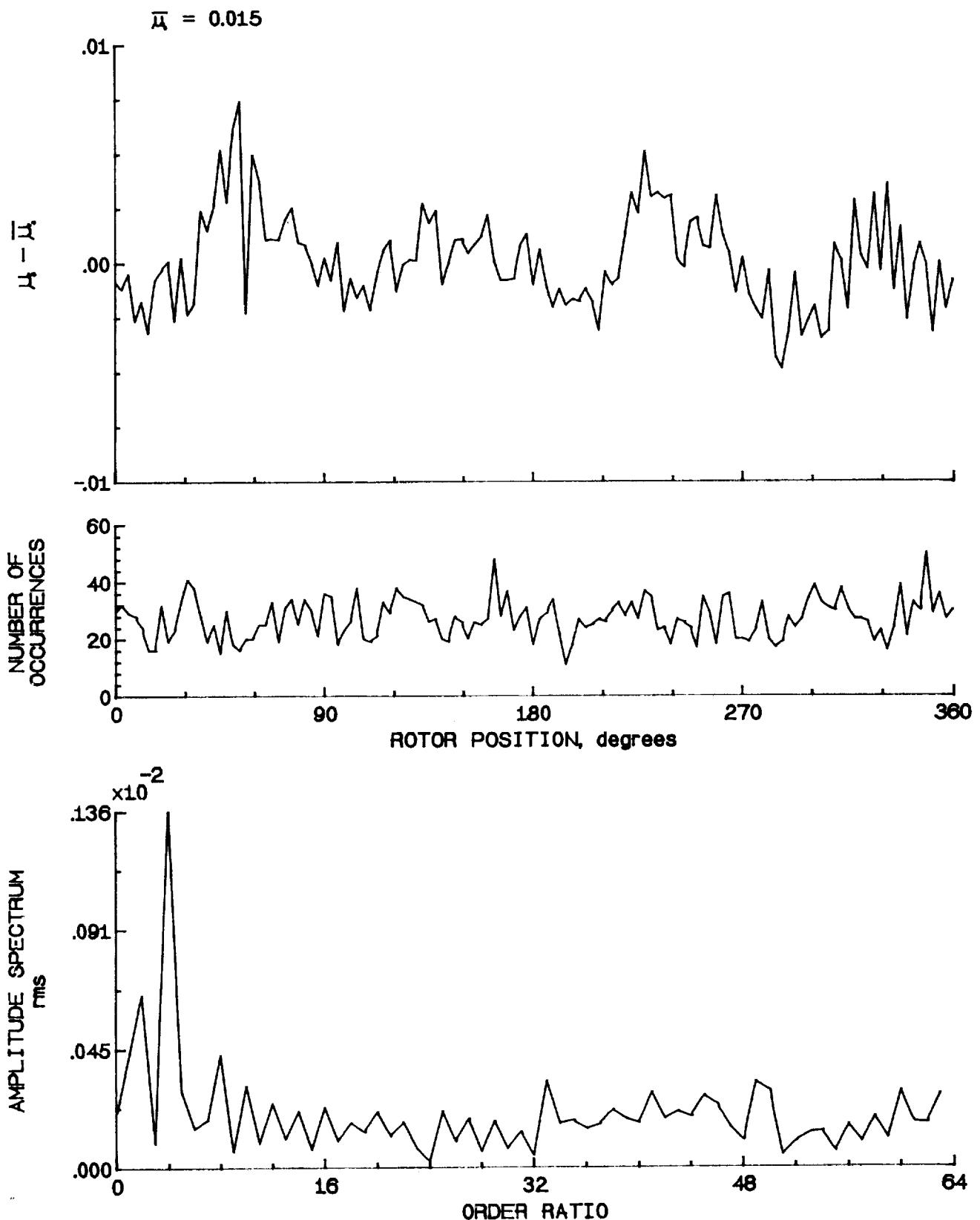


Figure 39.- Induced inflow velocity measured at 30 degrees and r/R of 0.58.

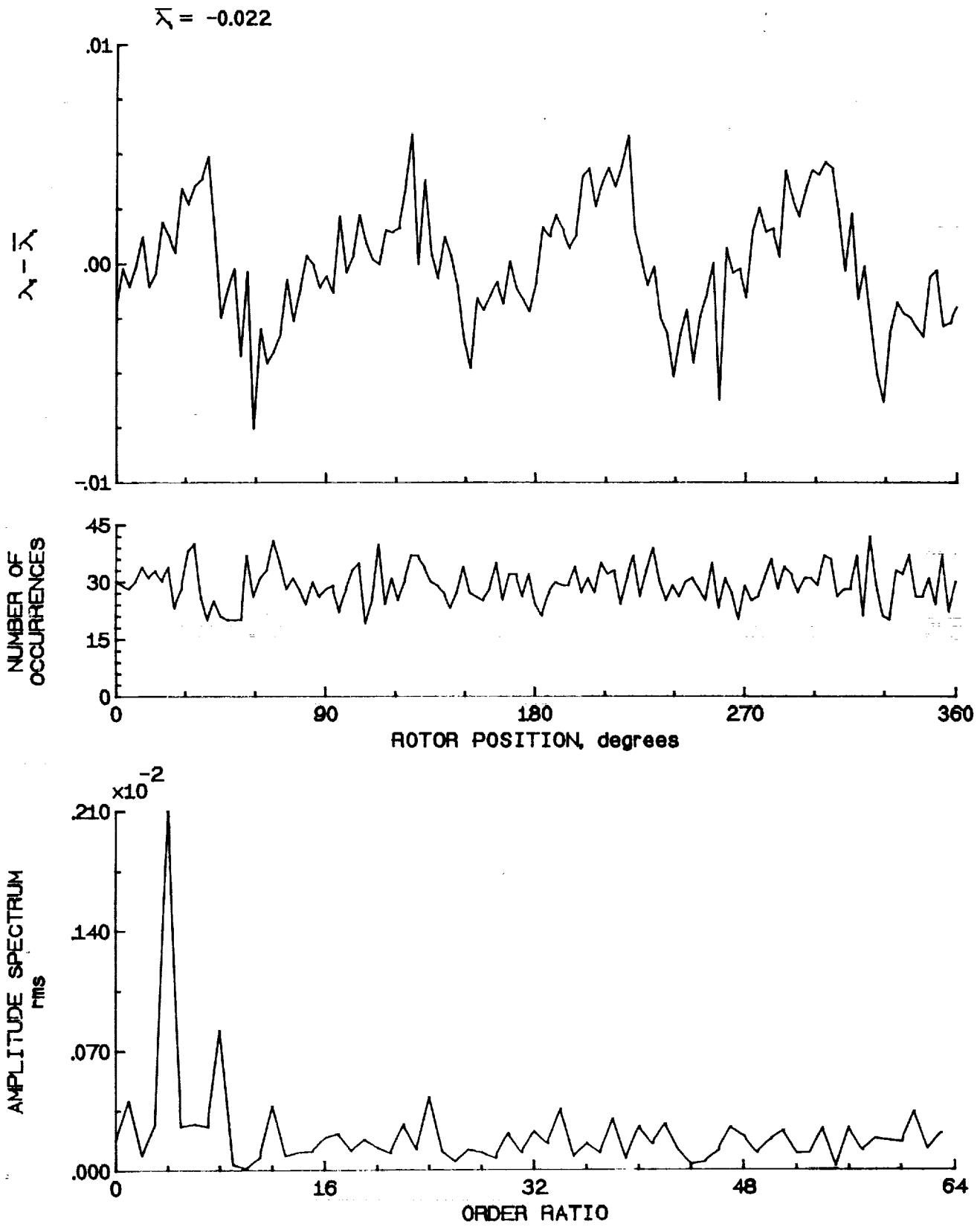


Figure 39.- Concluded.

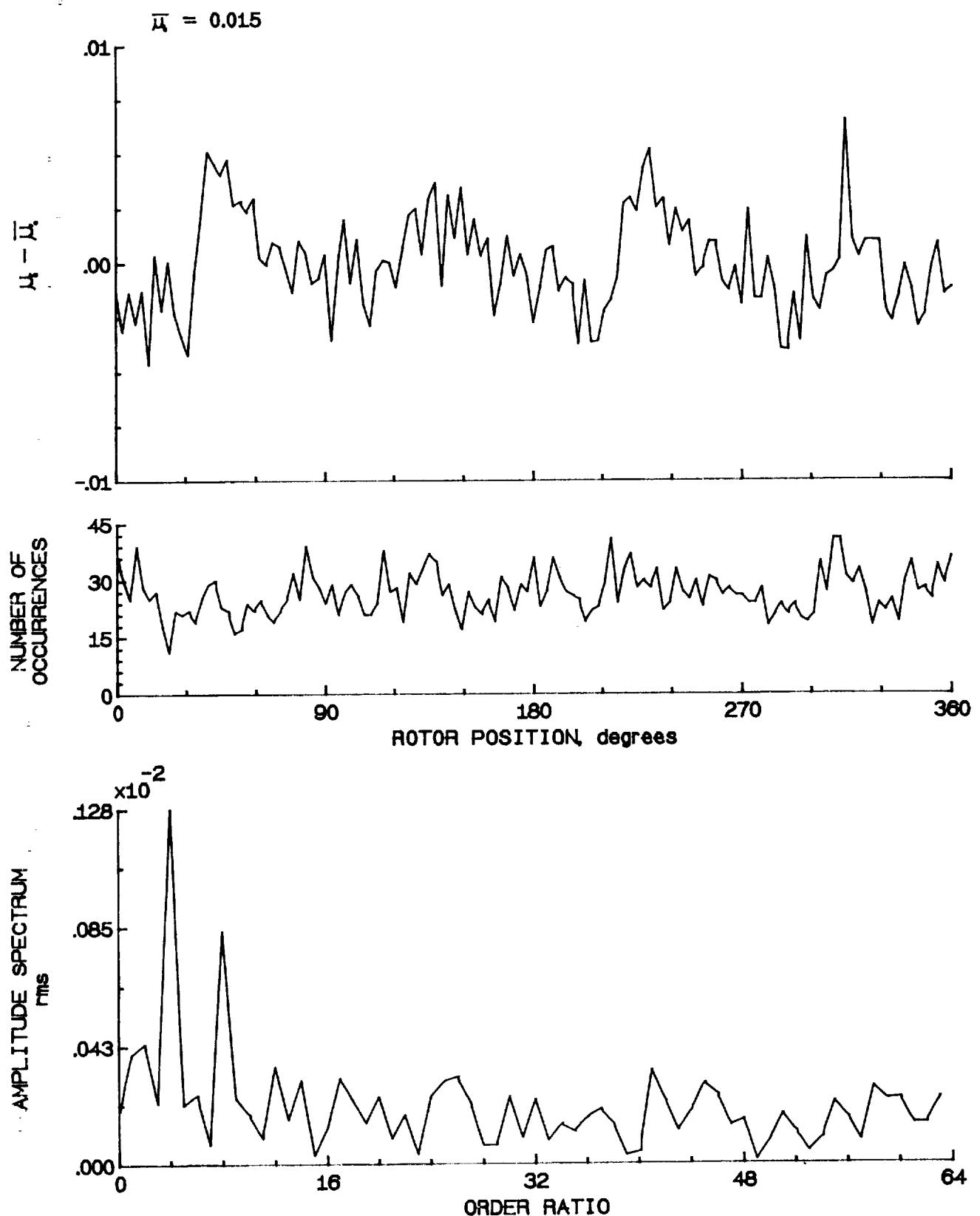


Figure 40.- Induced inflow velocity measured at 30 degrees and r/R of 0.69.

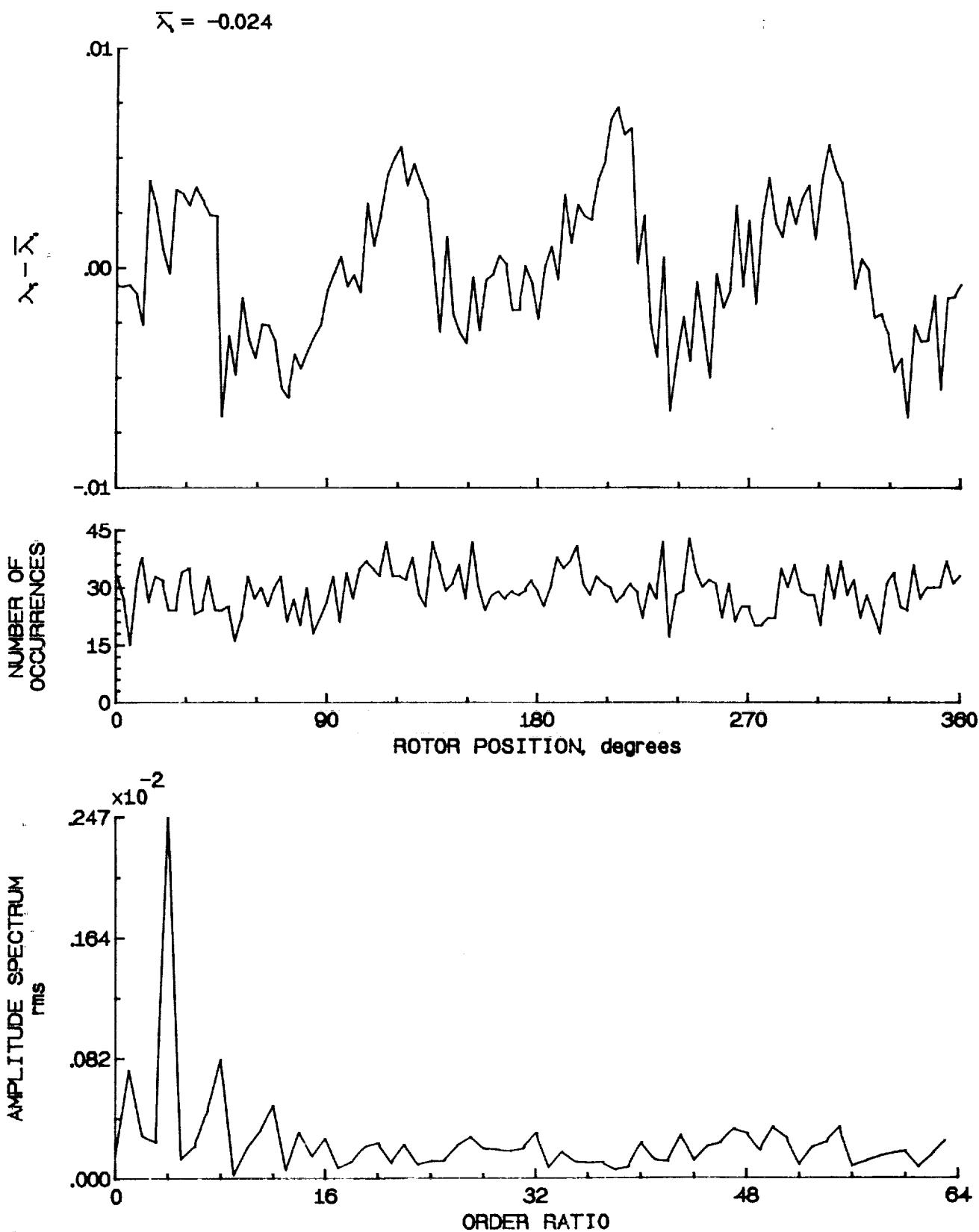


Figure 40.- Concluded.

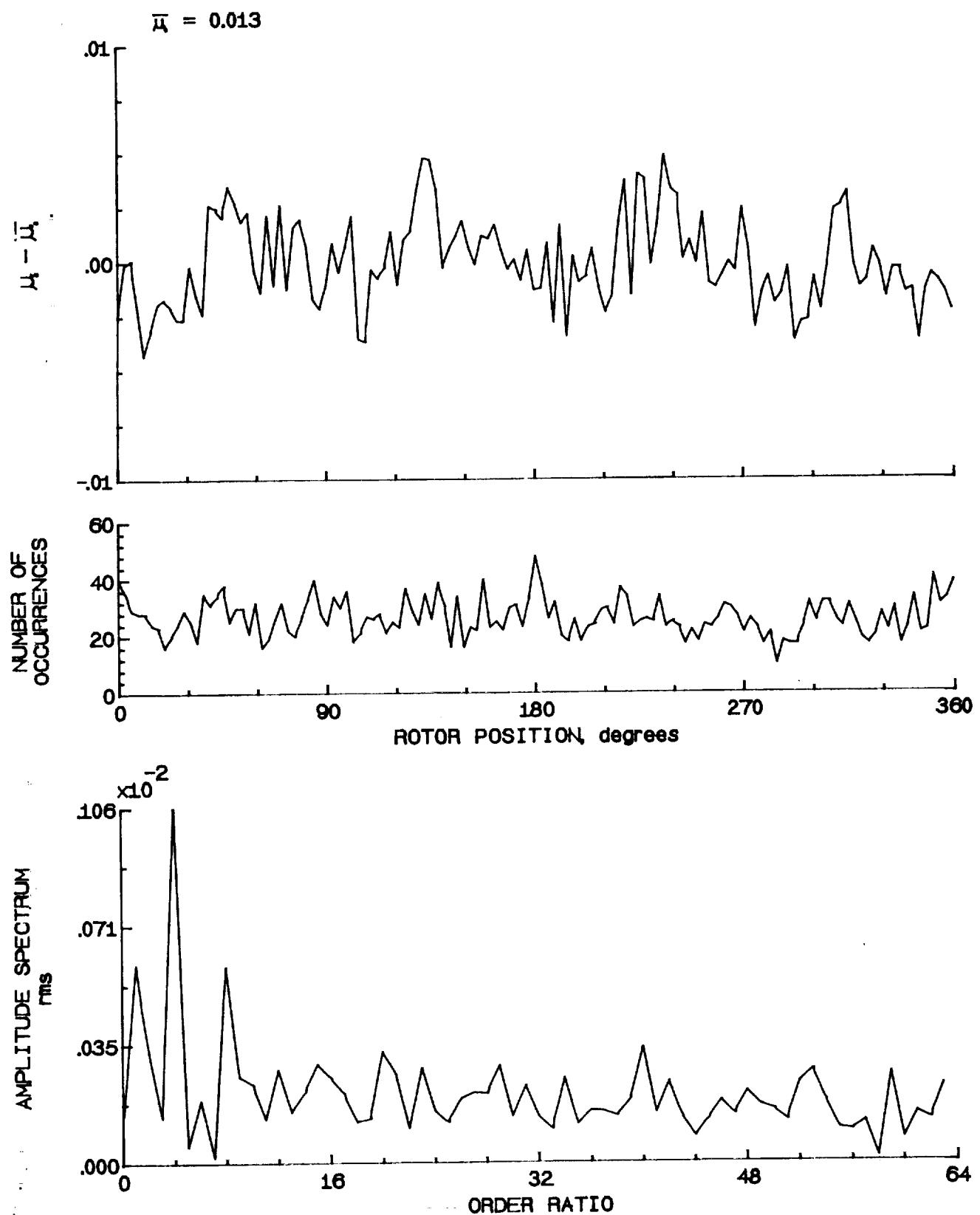


Figure 41- Induced inflow velocity measured at 30 degrees and r/R of 0.73.

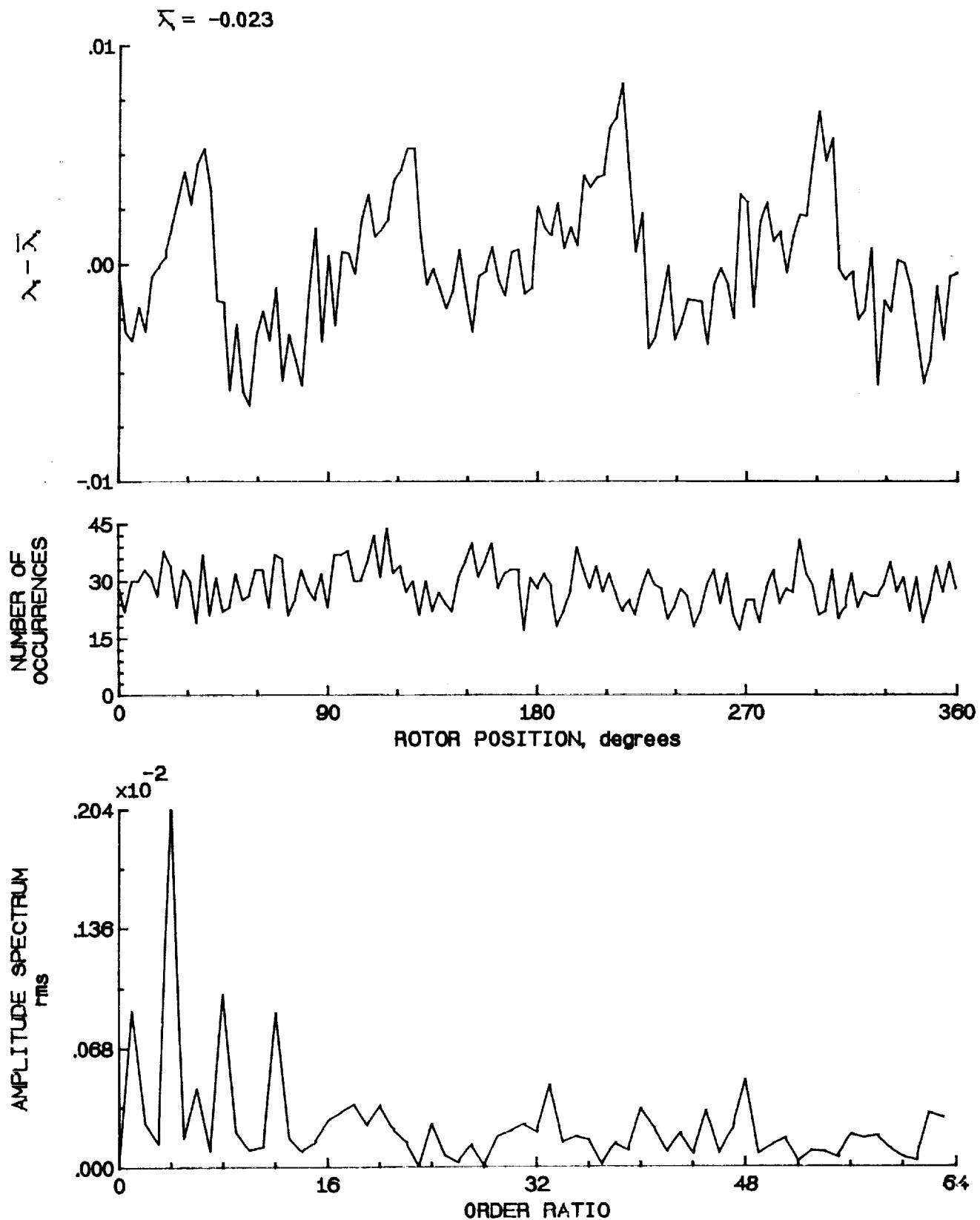


Figure 41- Concluded.

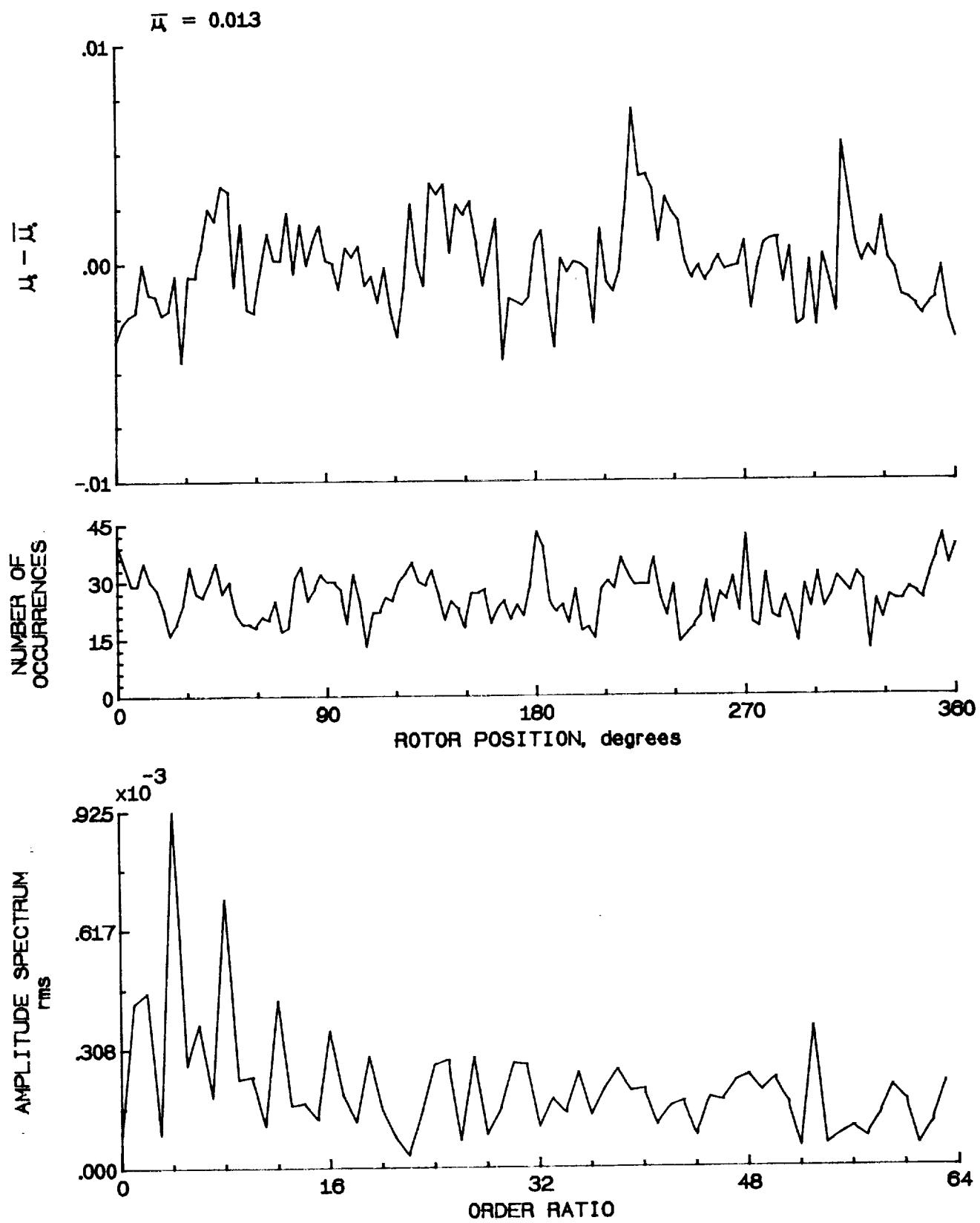


Figure 42.- Induced inflow velocity measured at 30 degrees and r/R of 0.75.

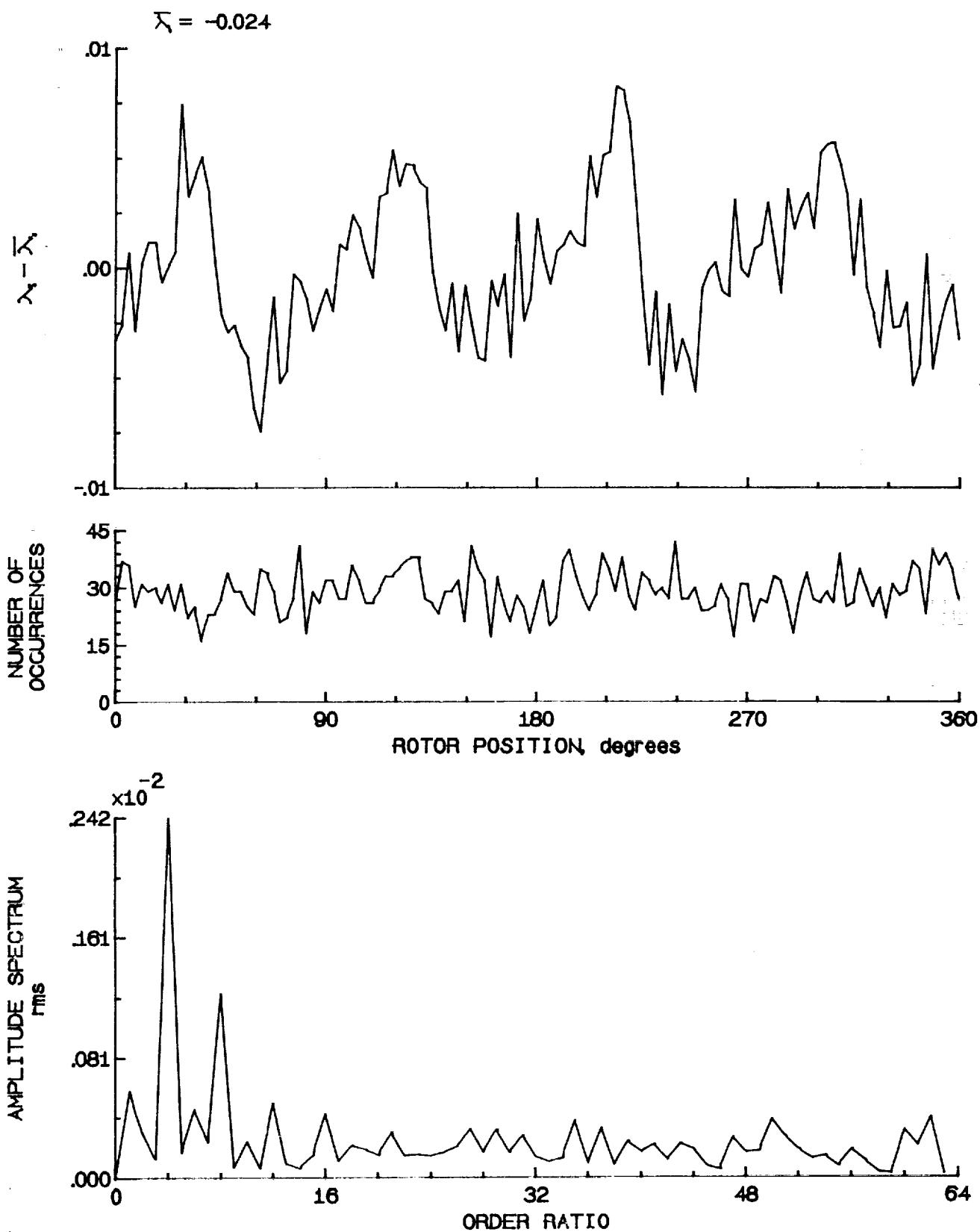


Figure 42—Concluded.

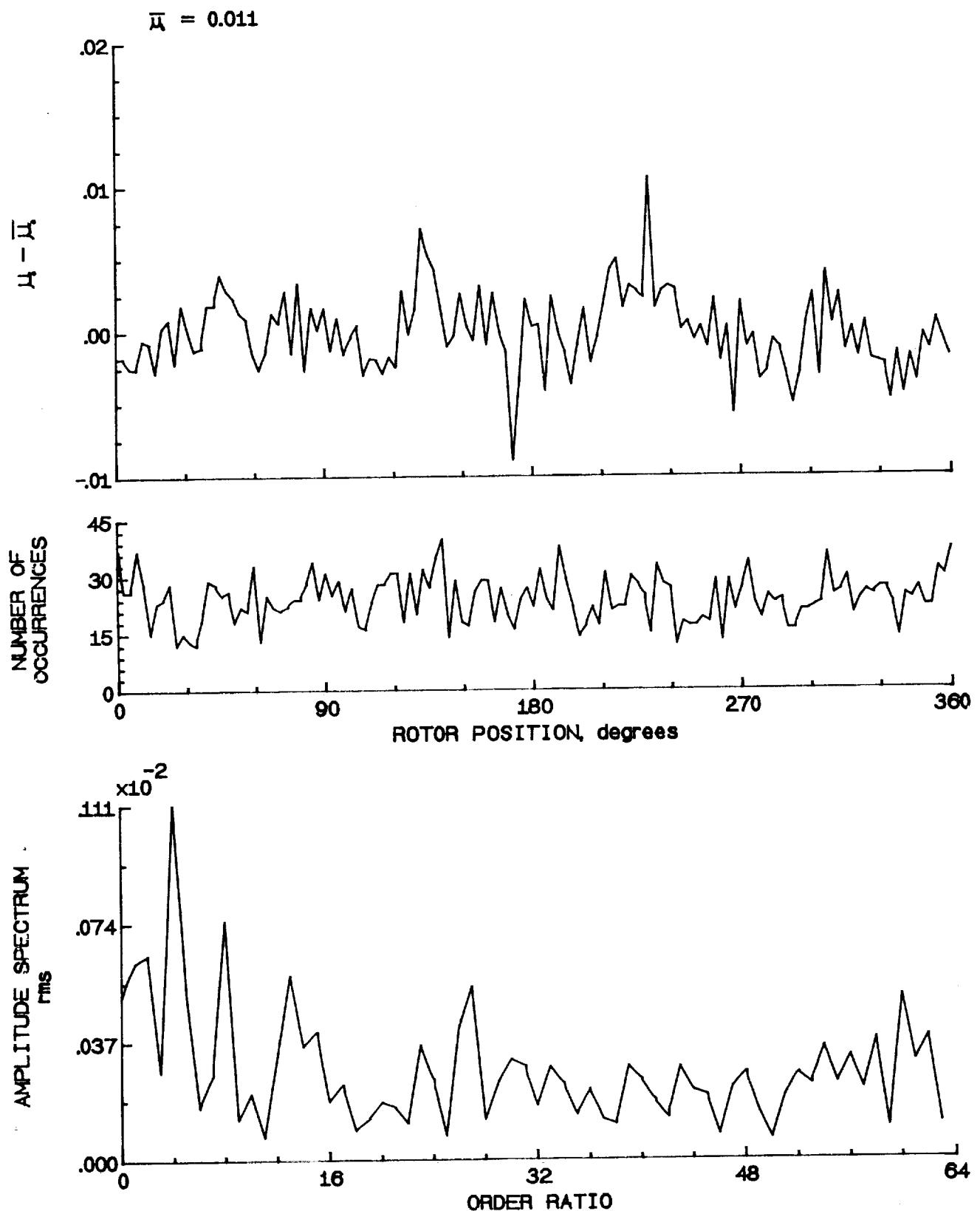


Figure 43.— Induced inflow velocity measured at 30 degrees and r/R of 0.81

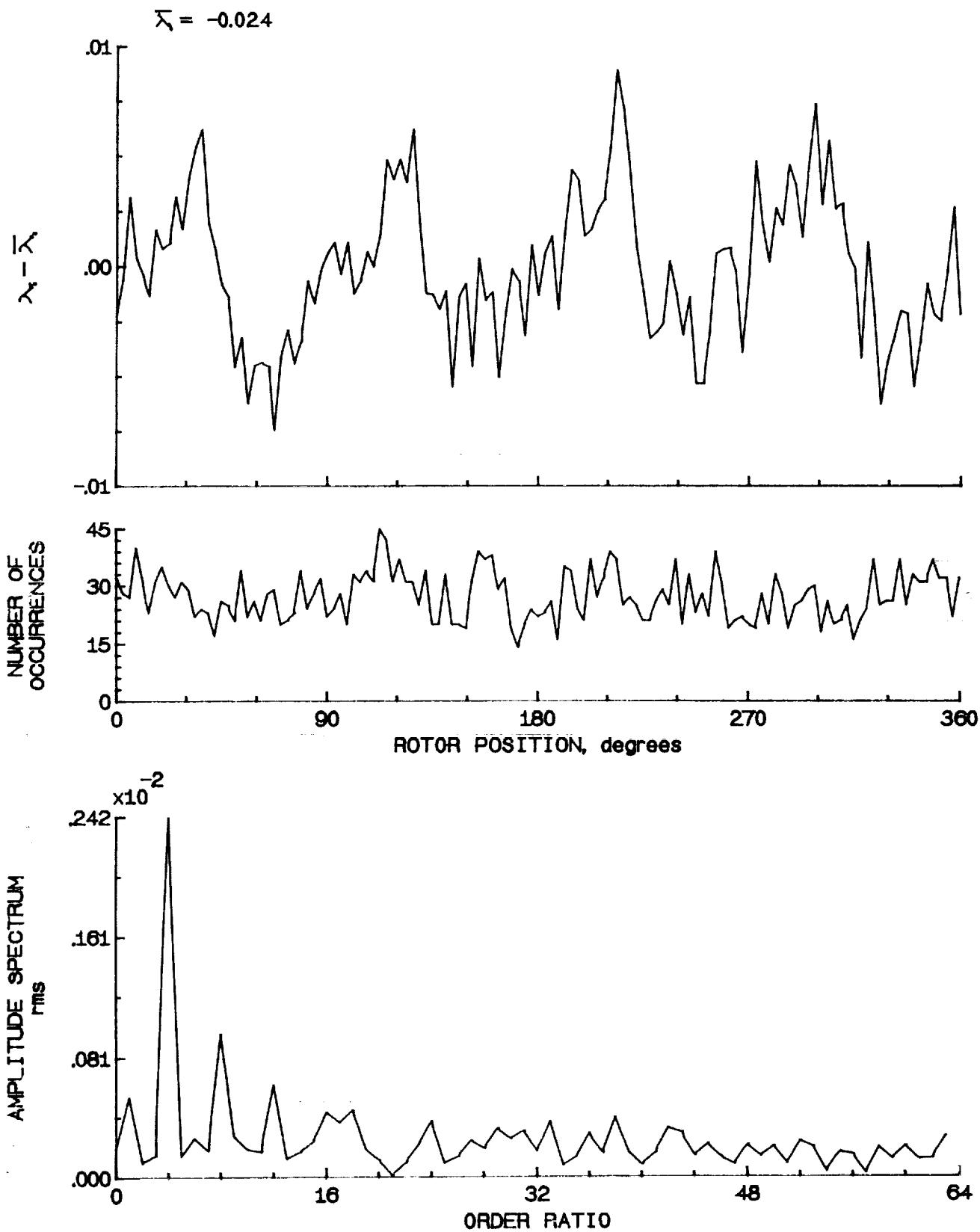


Figure 43.- Concluded.

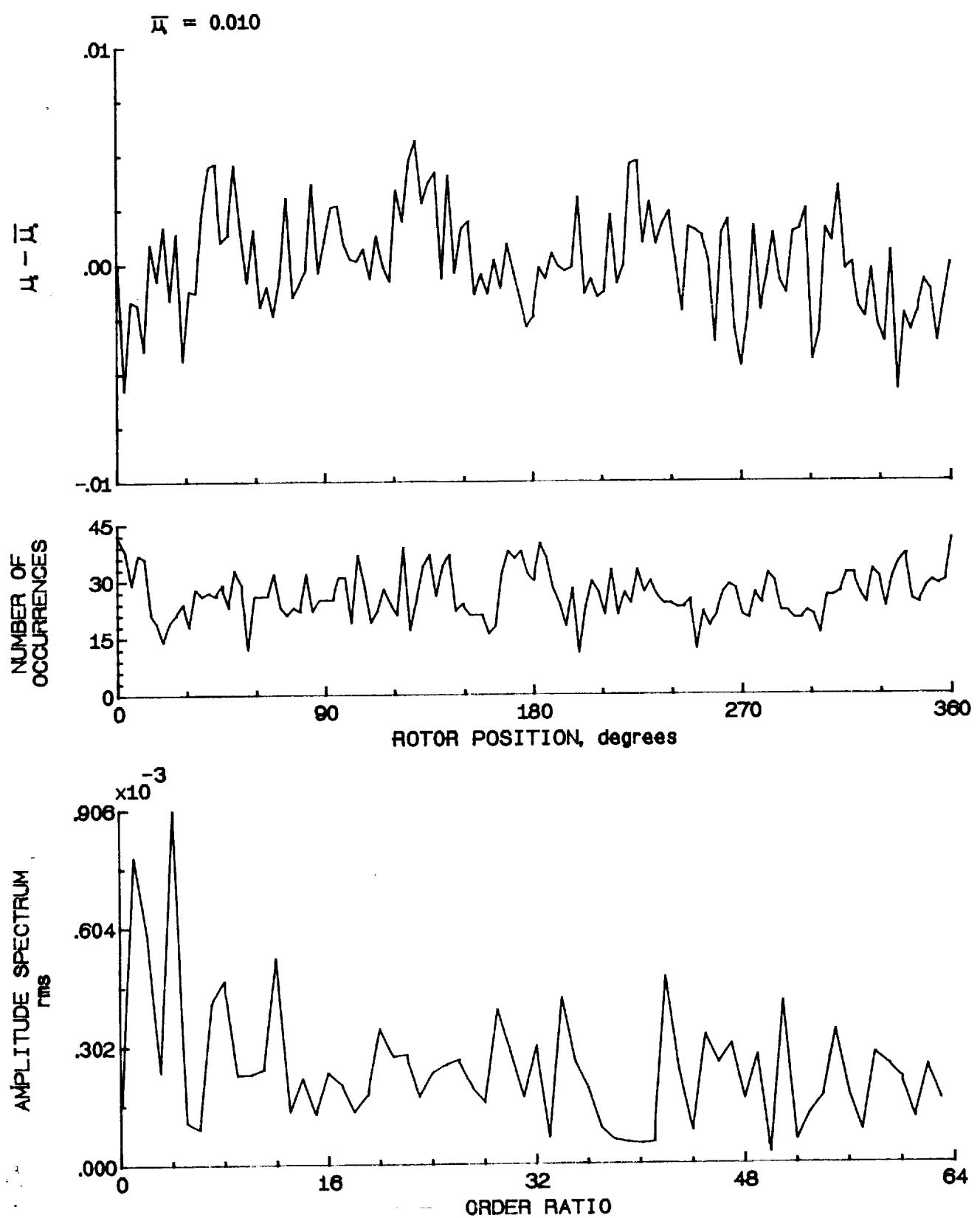


Figure 44.- Induced inflow velocity measured at 30 degrees and r/R of 0.86.

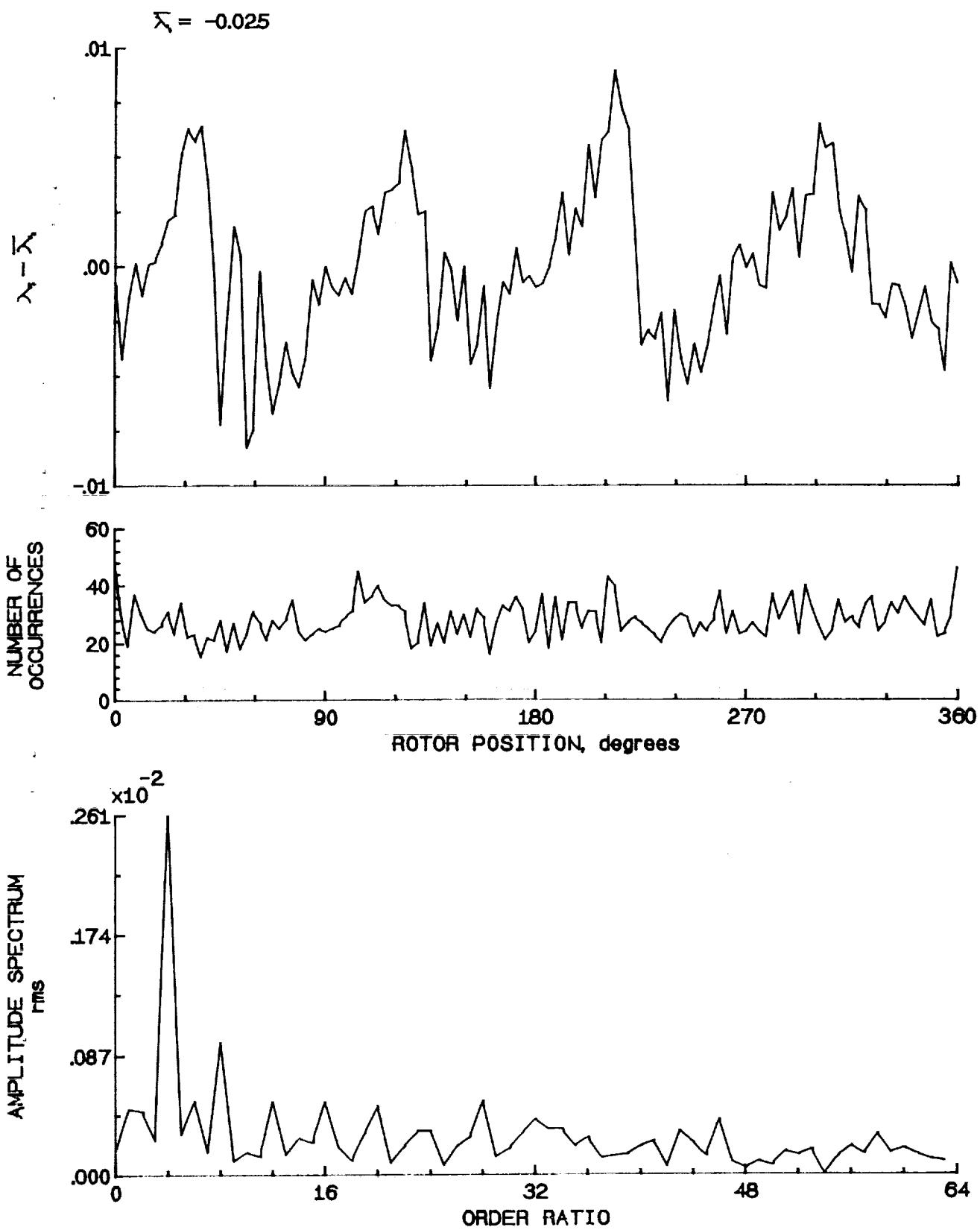


Figure 44.- Concluded.

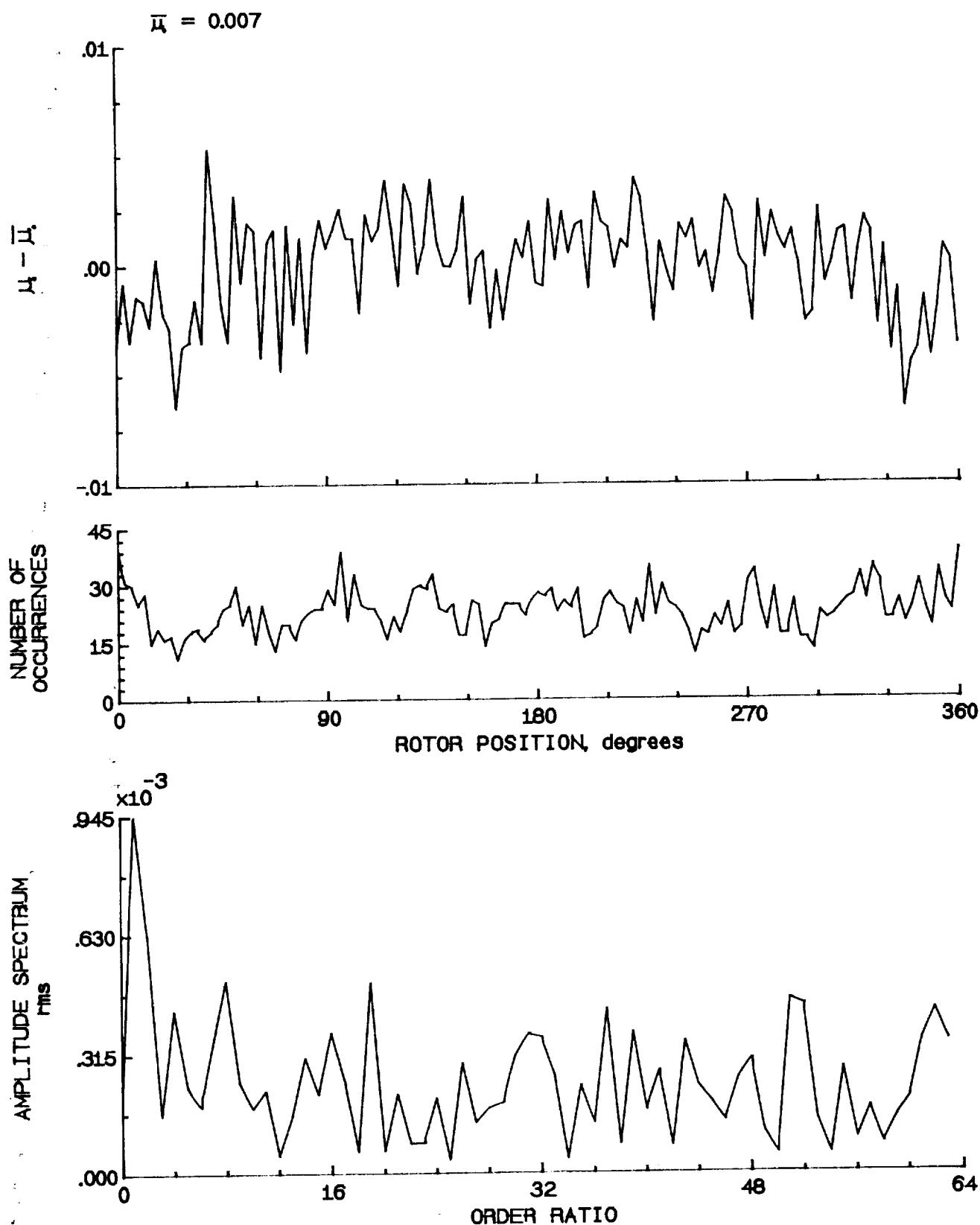


Figure 45.- Induced inflow velocity measured at 30 degrees and r/R of 0.90.

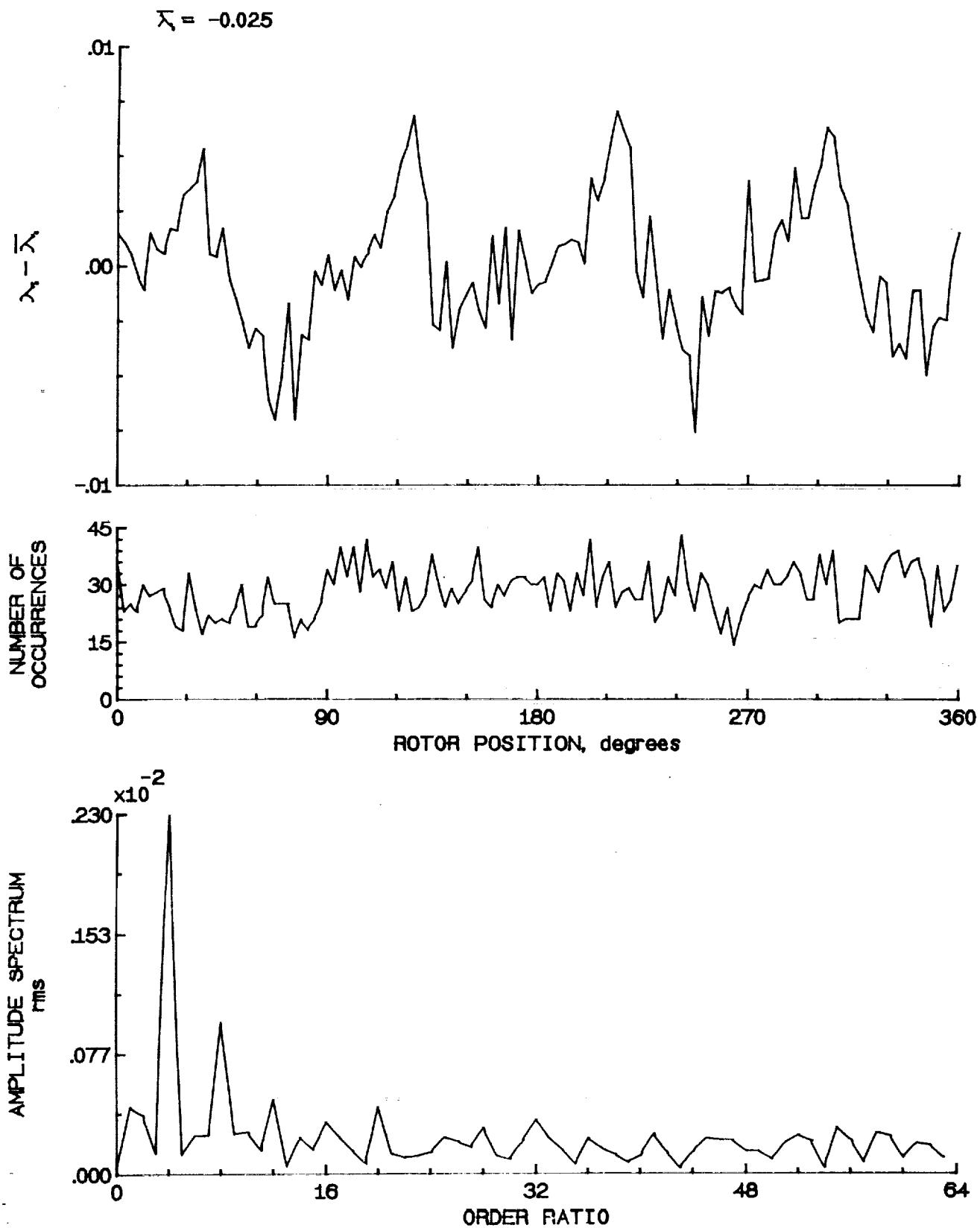


Figure 45.- Concluded.

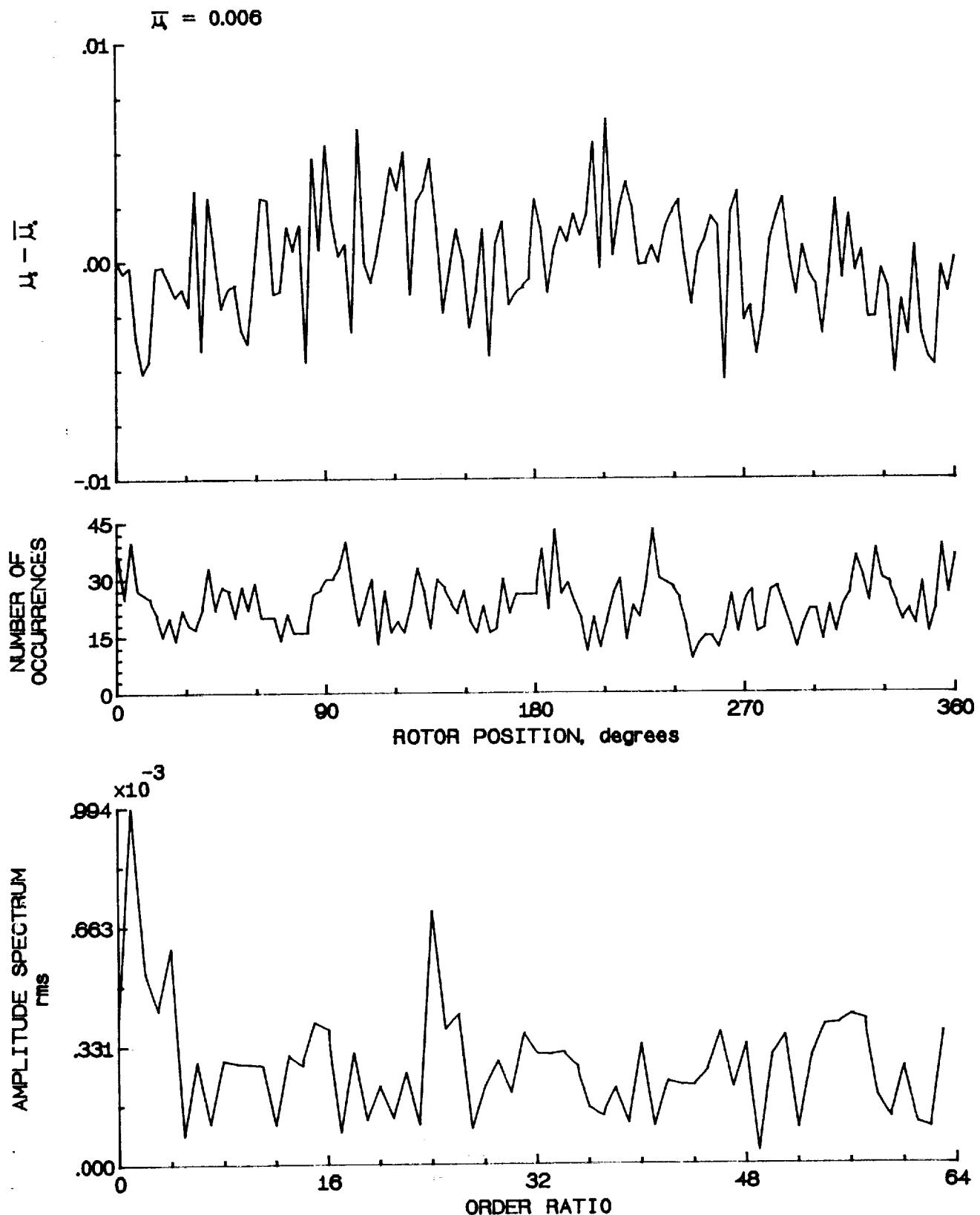


Figure 46.- Induced inflow velocity measured at 30 degrees and r/R of 0.94.

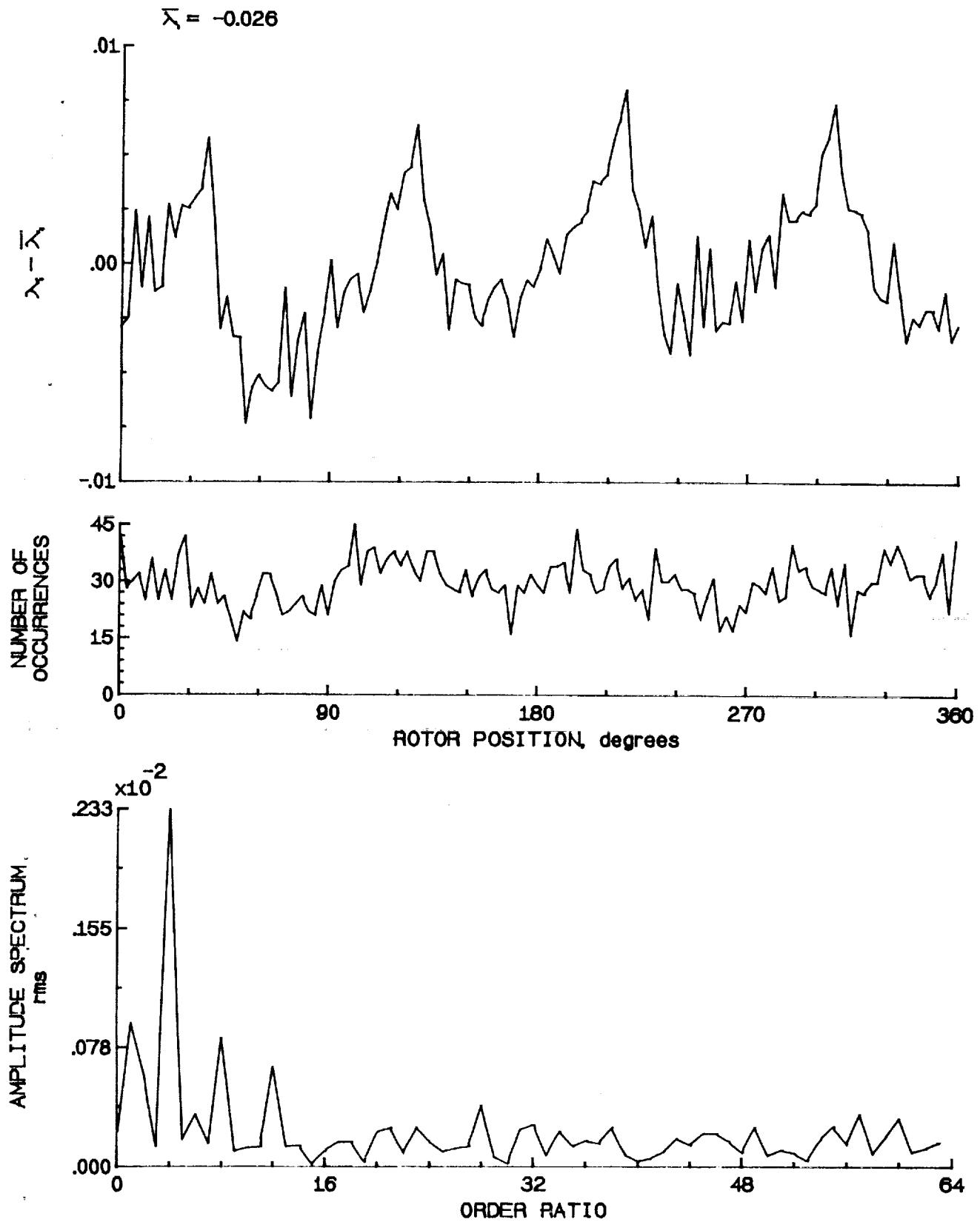


Figure 46.- Concluded.

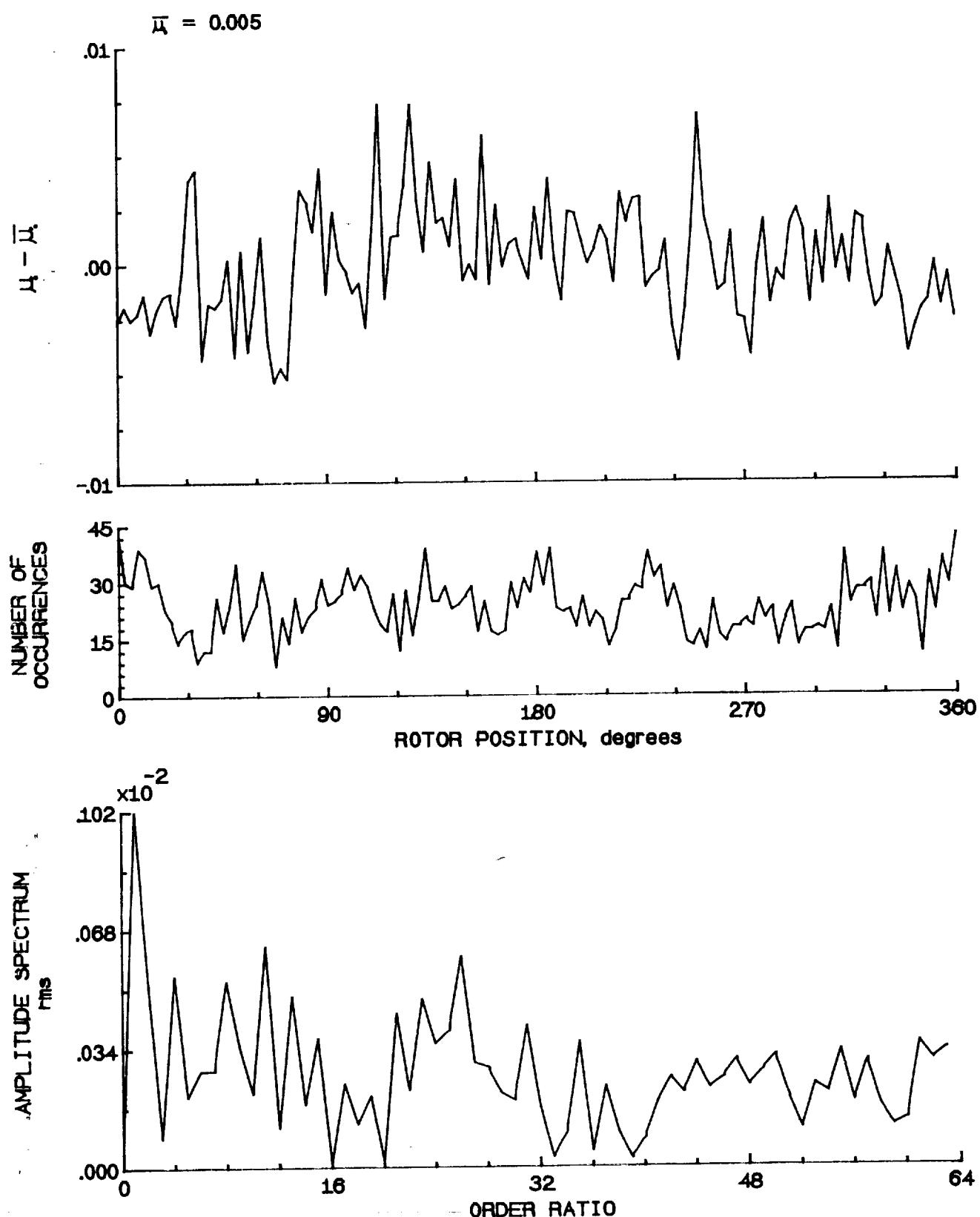


Figure 47.- Induced inflow velocity measured at 30 degrees and r/R of 0.96.

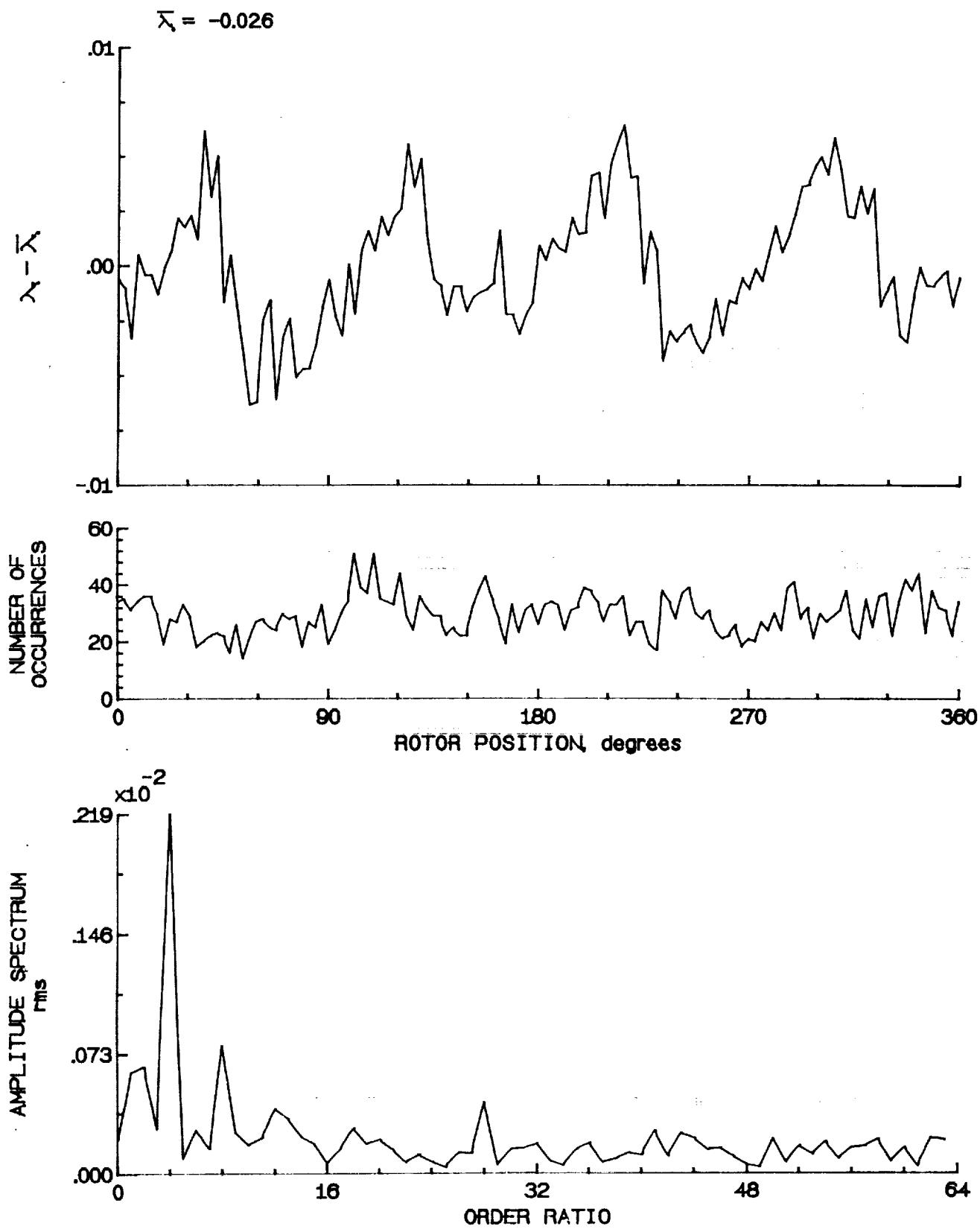


Figure 47.- Concluded.

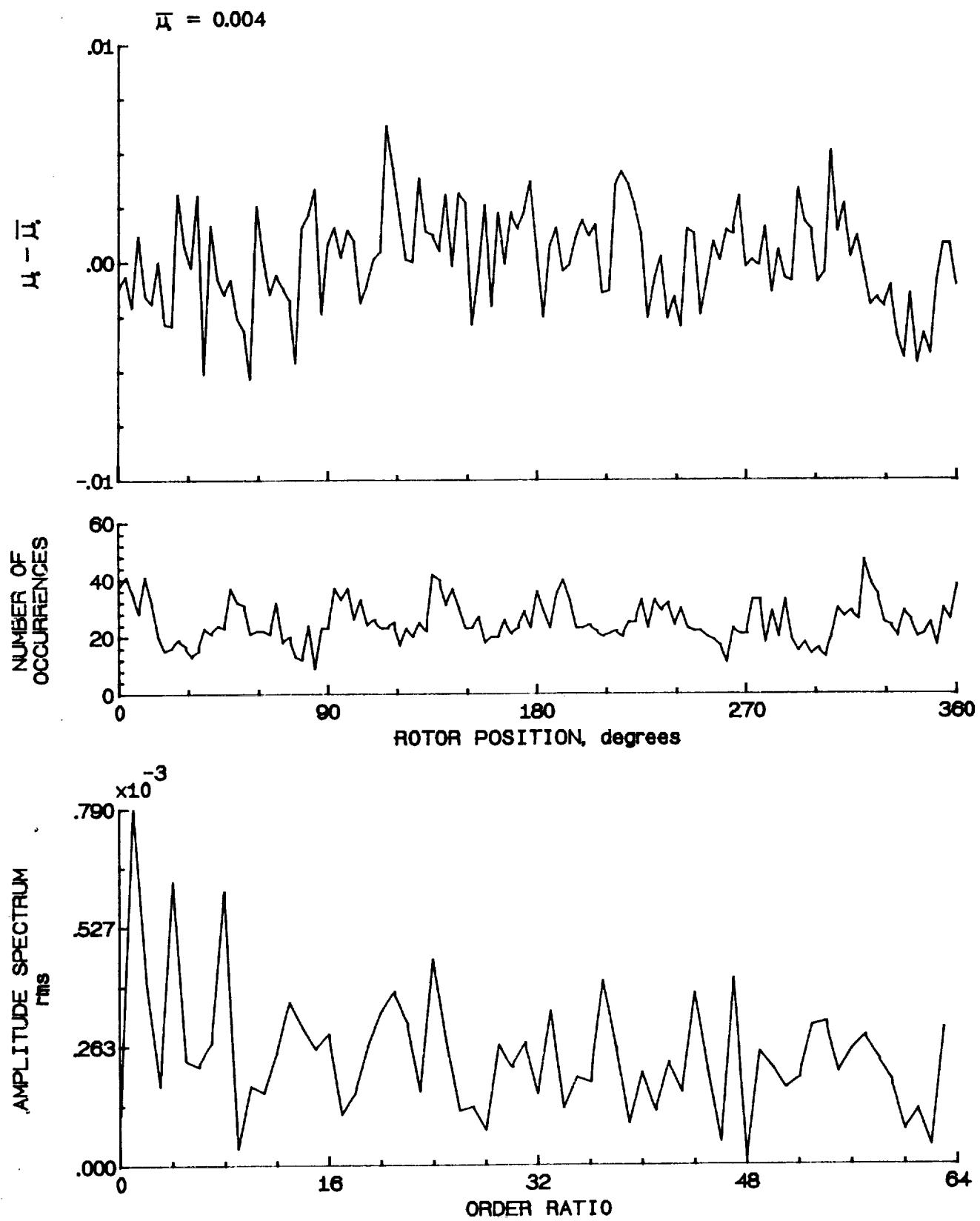


Figure 48.- Induced inflow velocity measured at 30 degrees and r/R of 1.00.

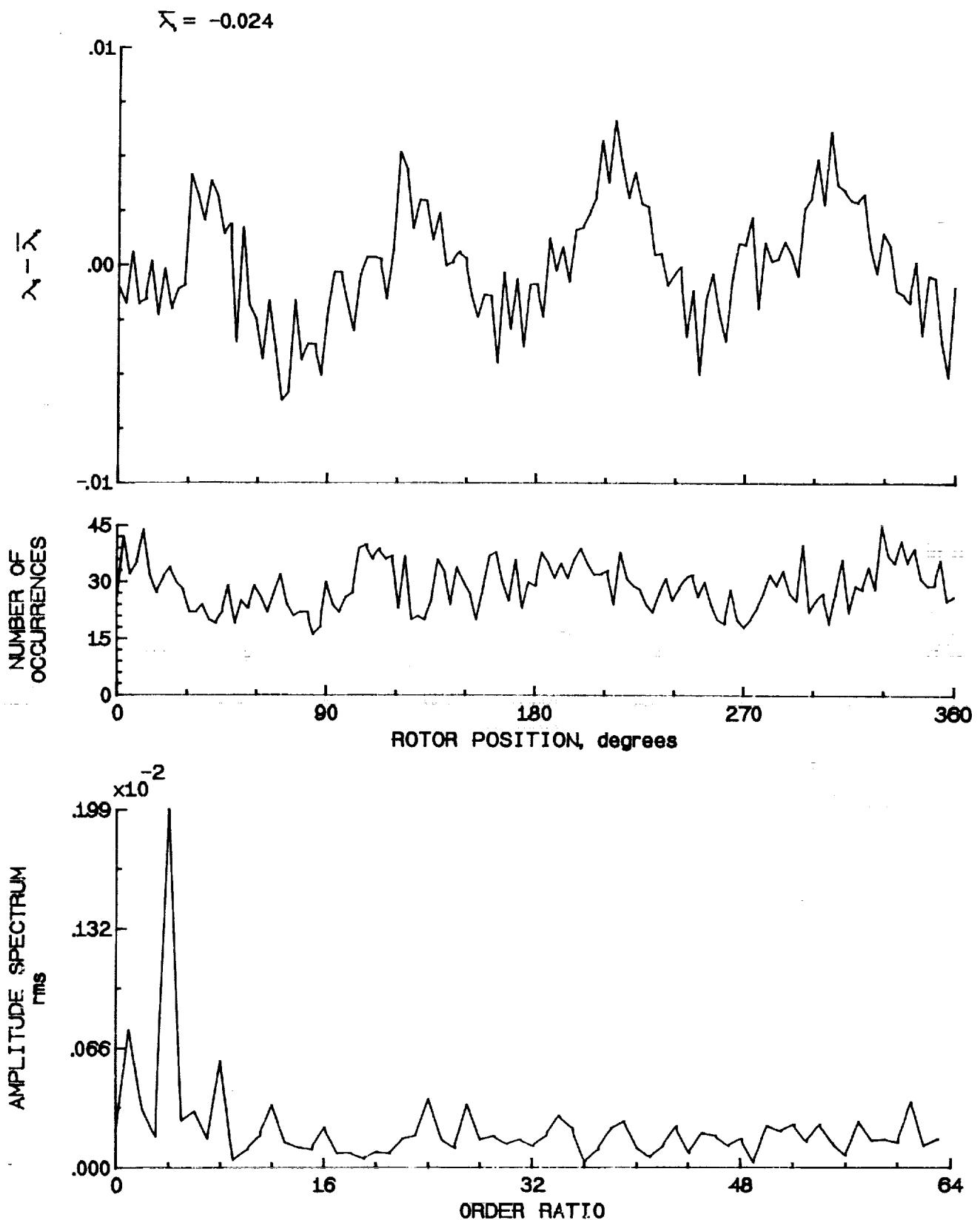


Figure 48.- Concluded.

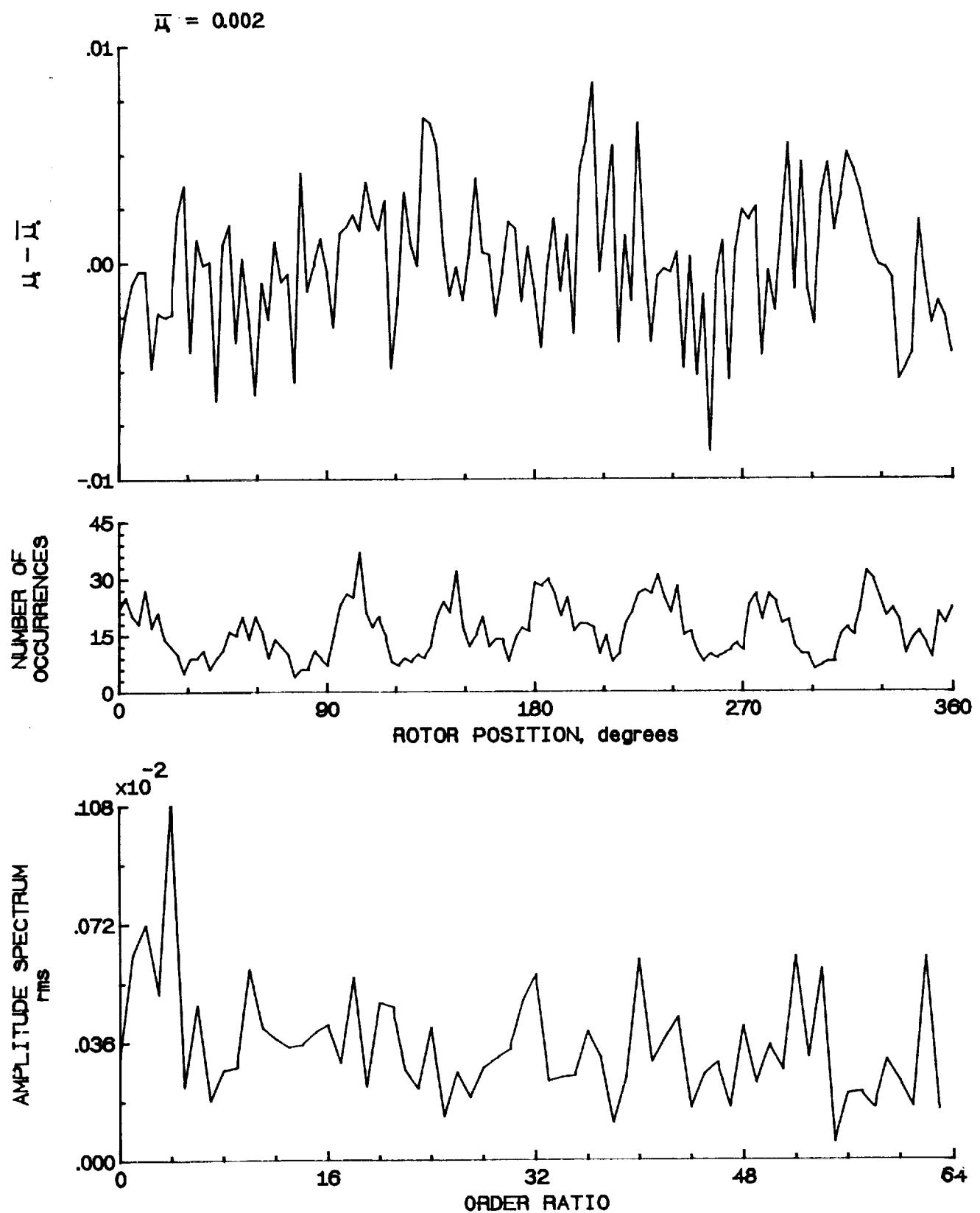


Figure 49.- Induced inflow velocity measured at 30 degrees and r/R of 1.10.

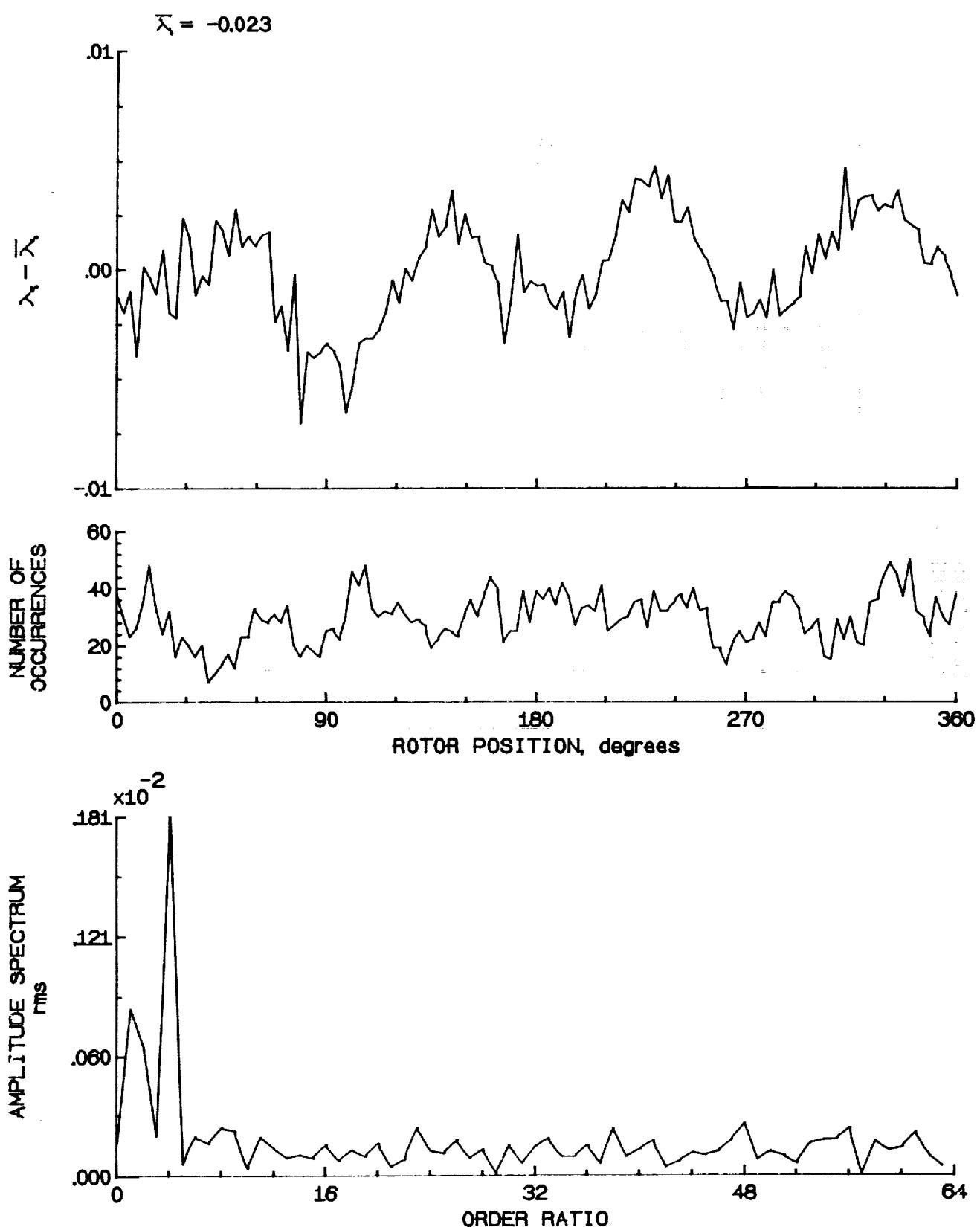


Figure 49.- Concluded.

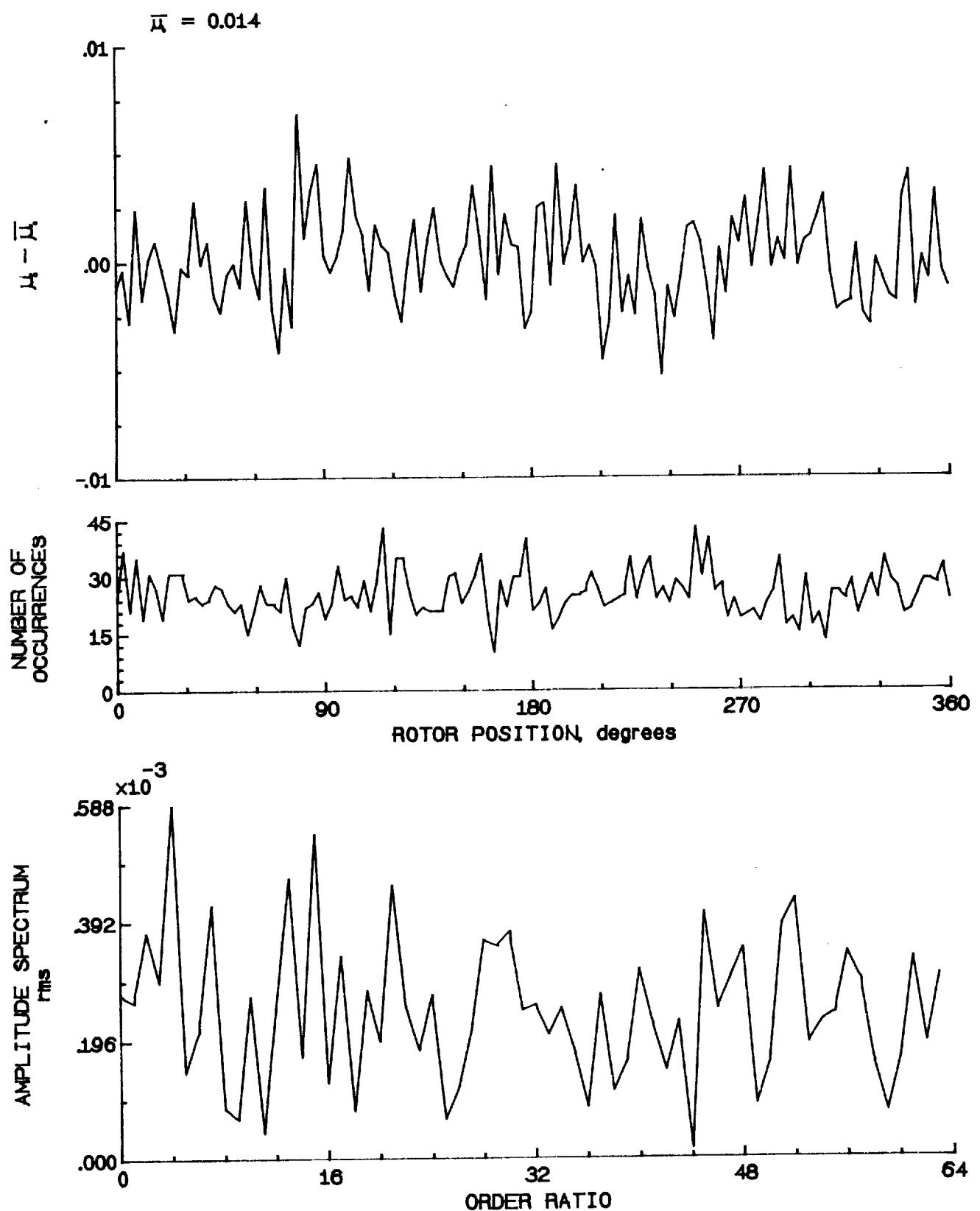


Figure 50.- Induced inflow velocity measured at 60 degrees and r/R of 0.20.

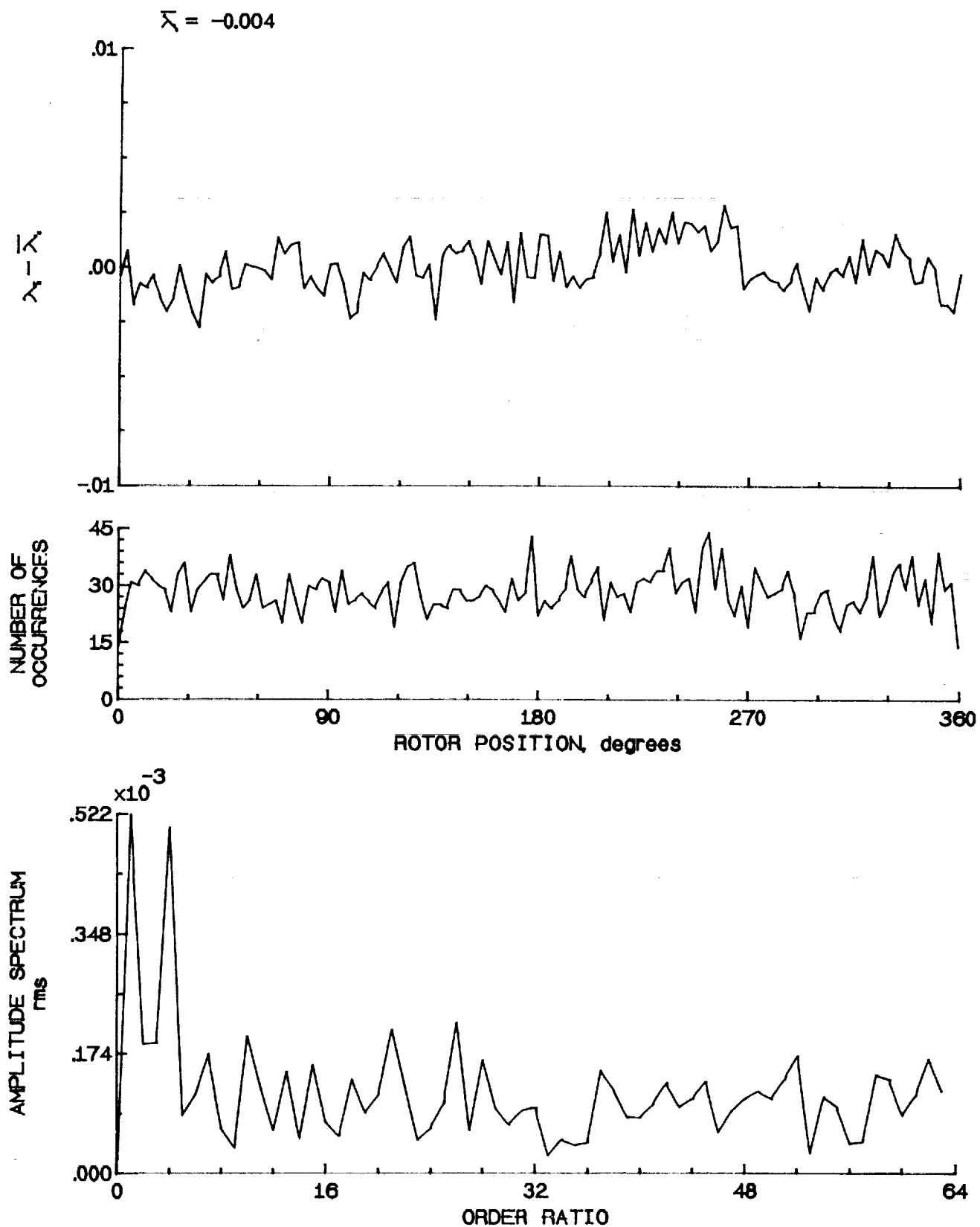


Figure 50.- Concluded.

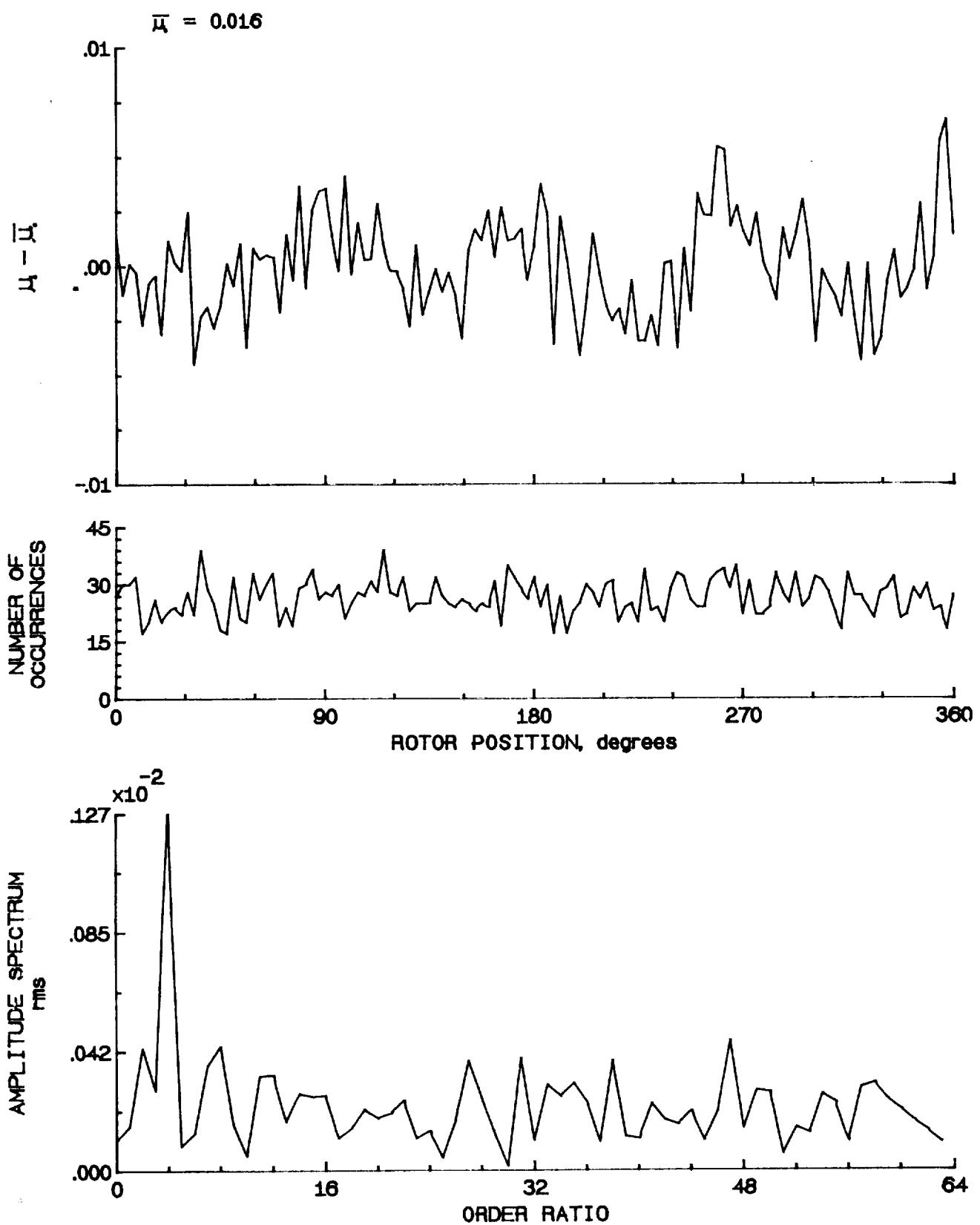


Figure 51.- Induced inflow velocity measured at 60 degrees and r/R of 0.32.

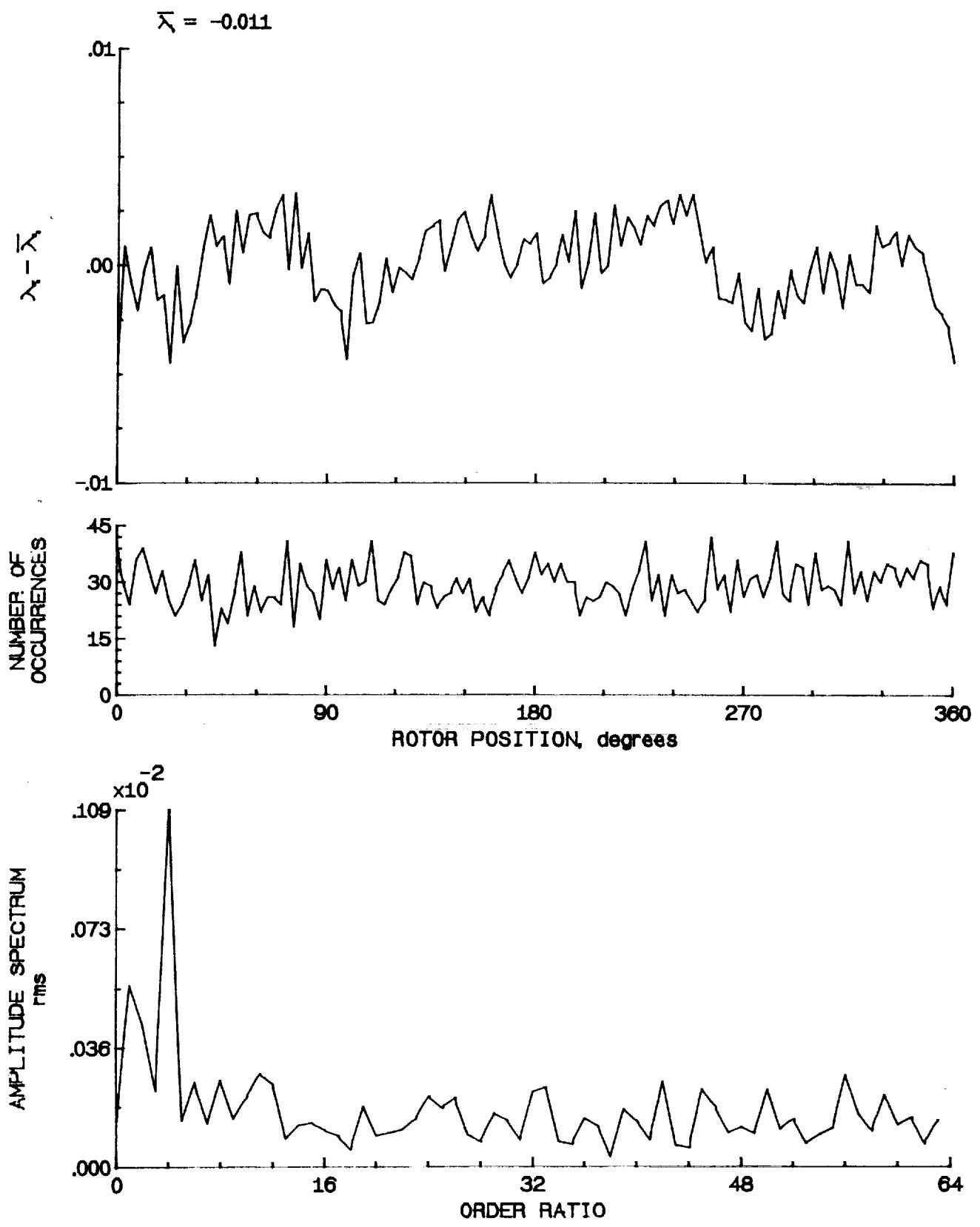


Figure 51—Concluded.

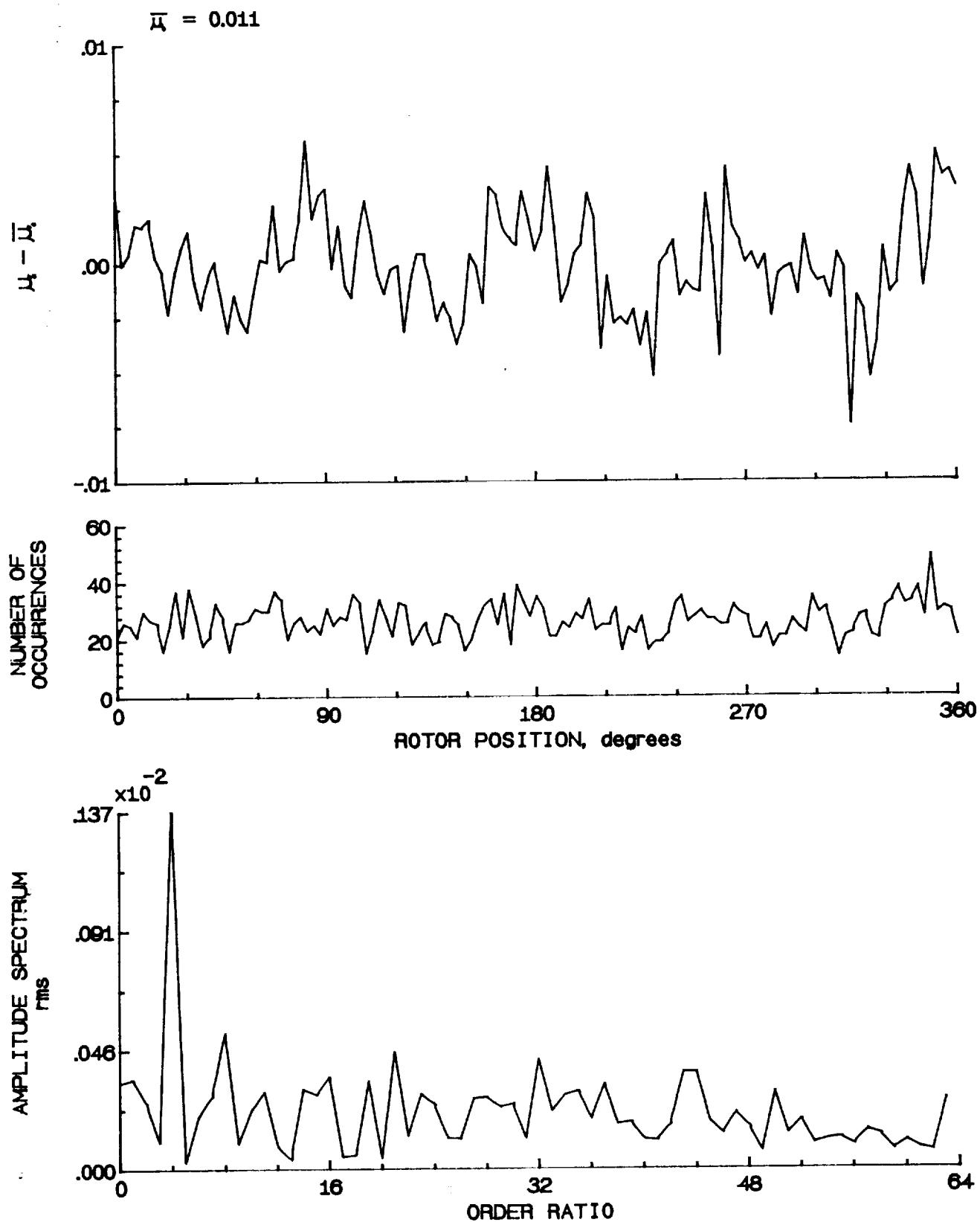


Figure 52.- Induced inflow velocity measured at 60 degrees and r/R of 0.50.

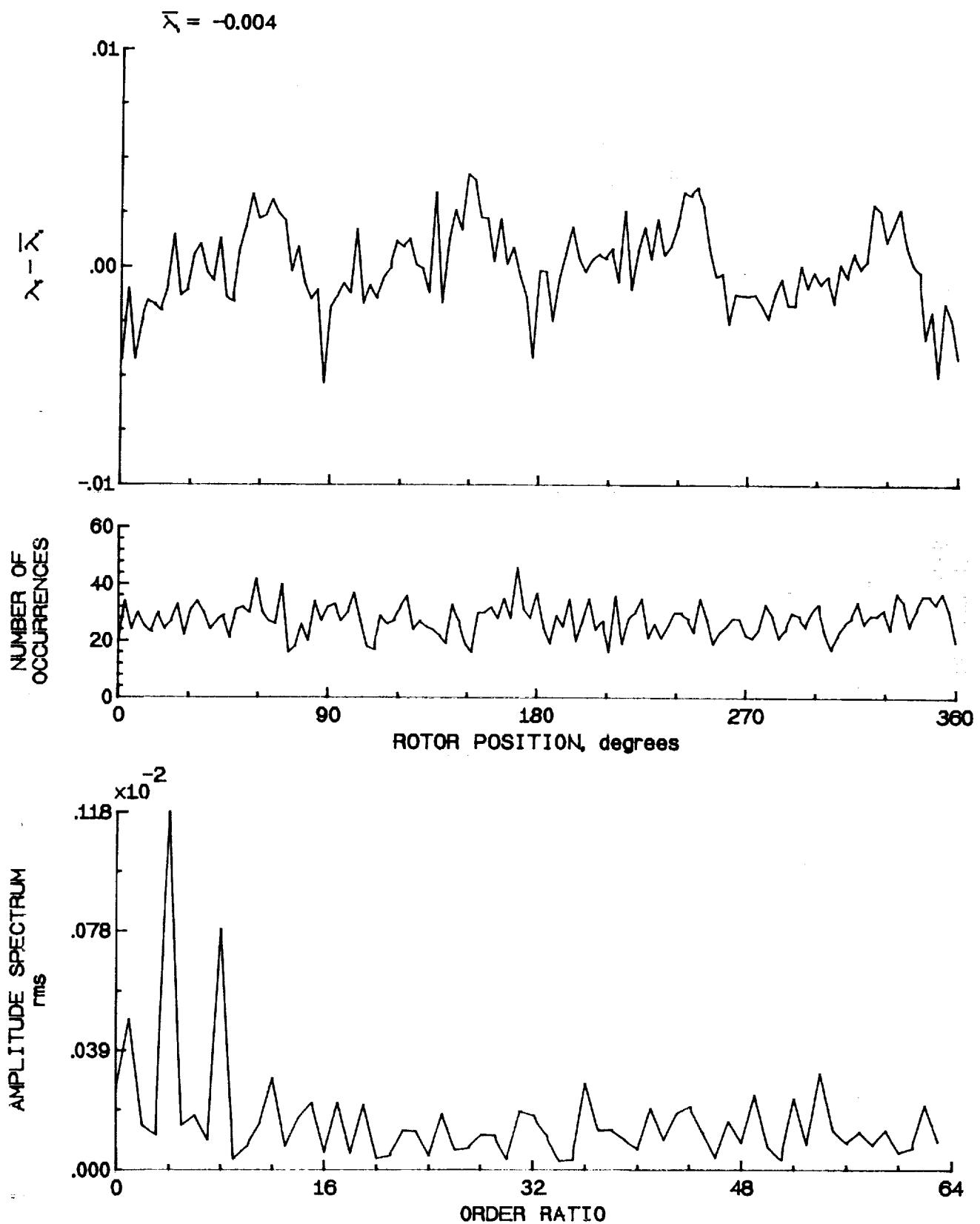


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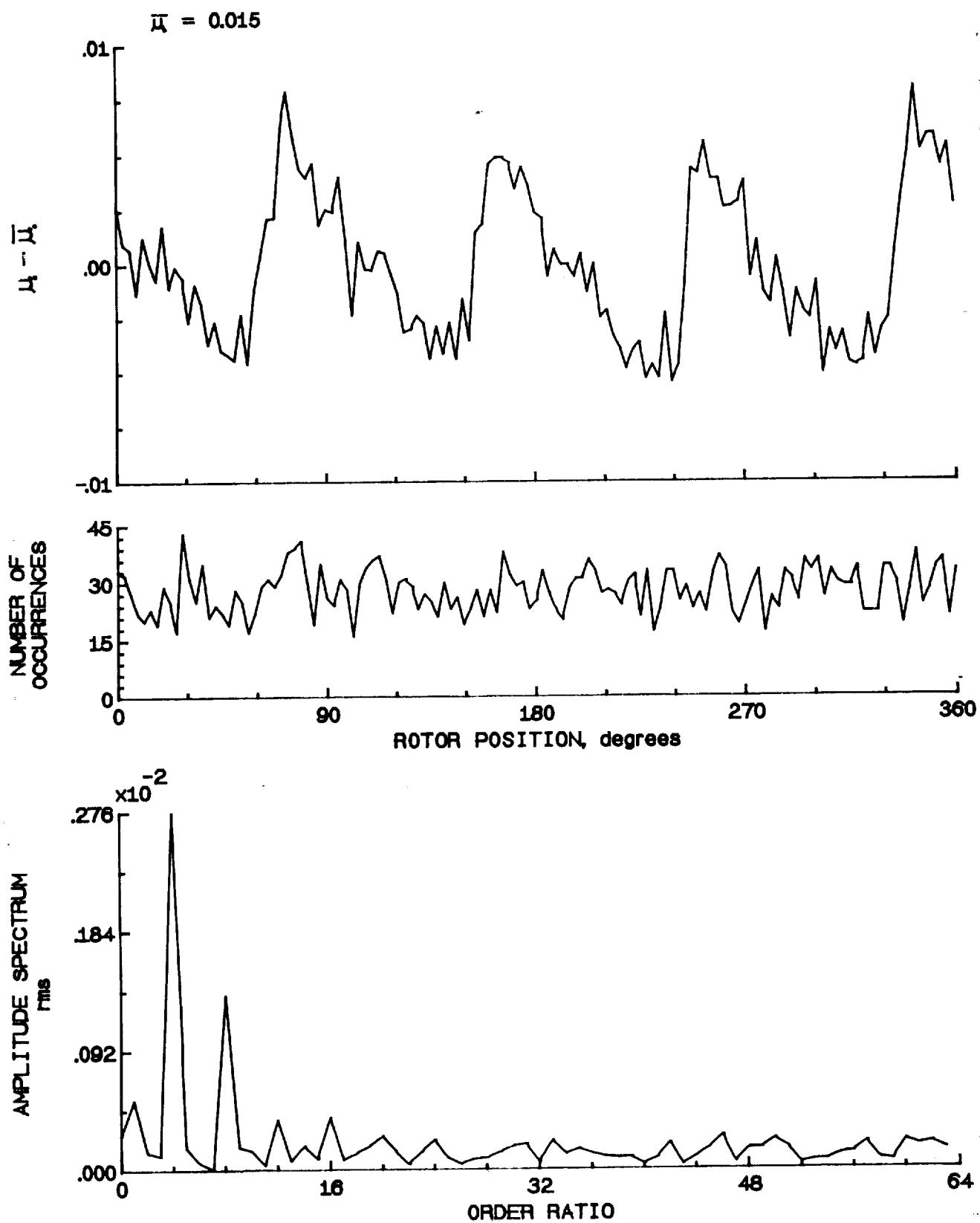


Figure 53.- Induced inflow velocity measured at 60 degrees and r/R of 0.58.

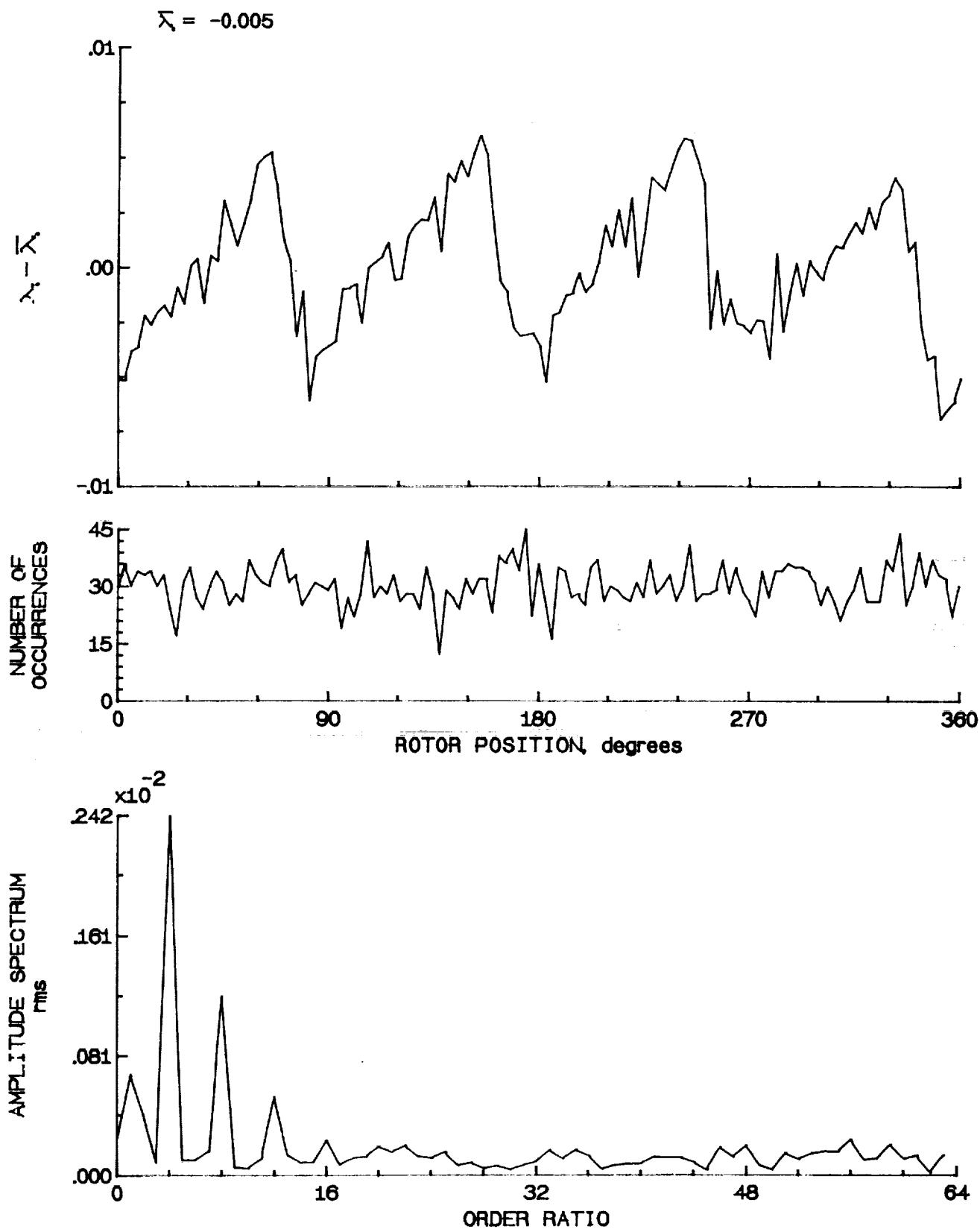


Figure 53.- Concluded.

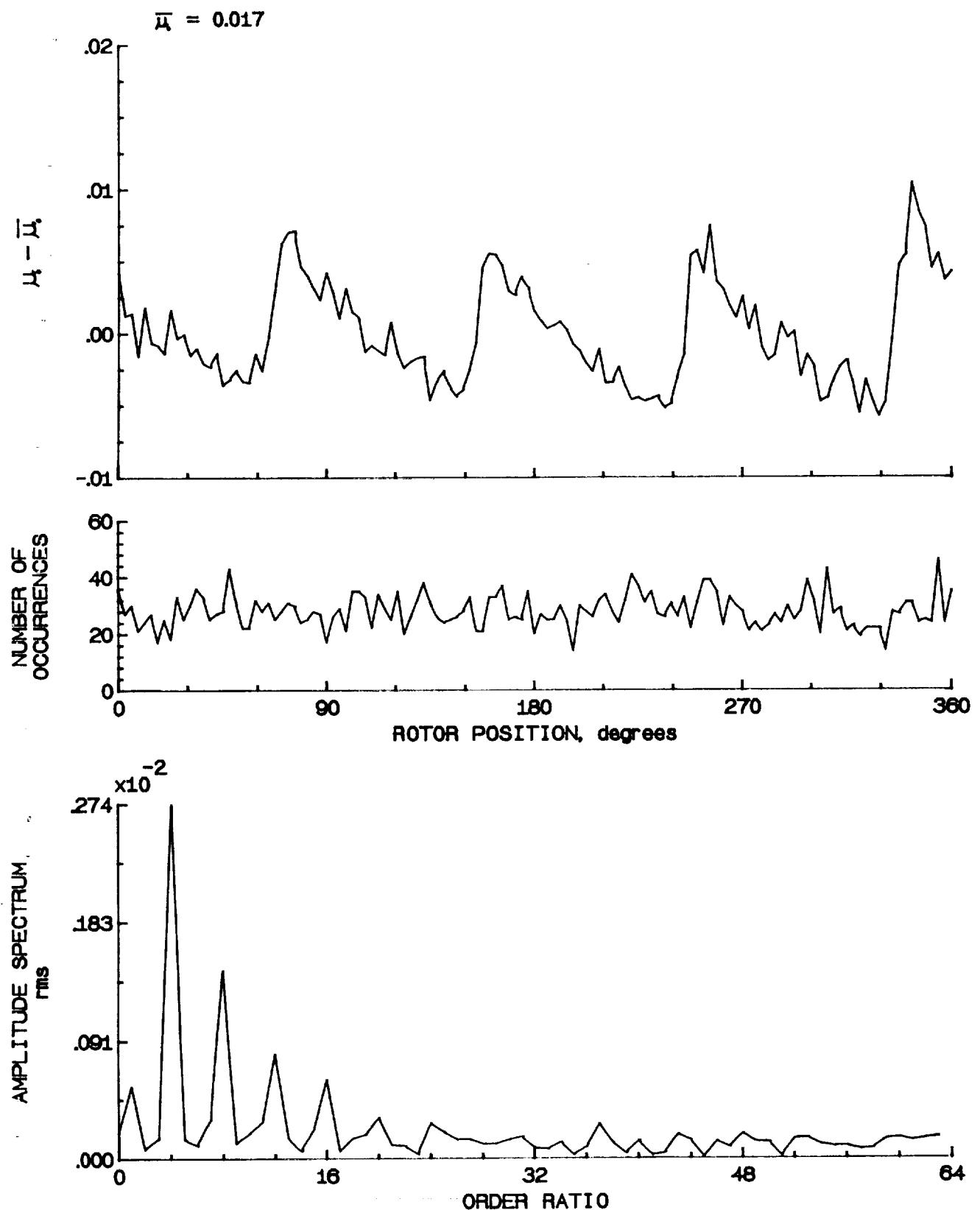


Figure 54.- Induced inflow velocity measured at 60 degrees and r/R of 0.69.

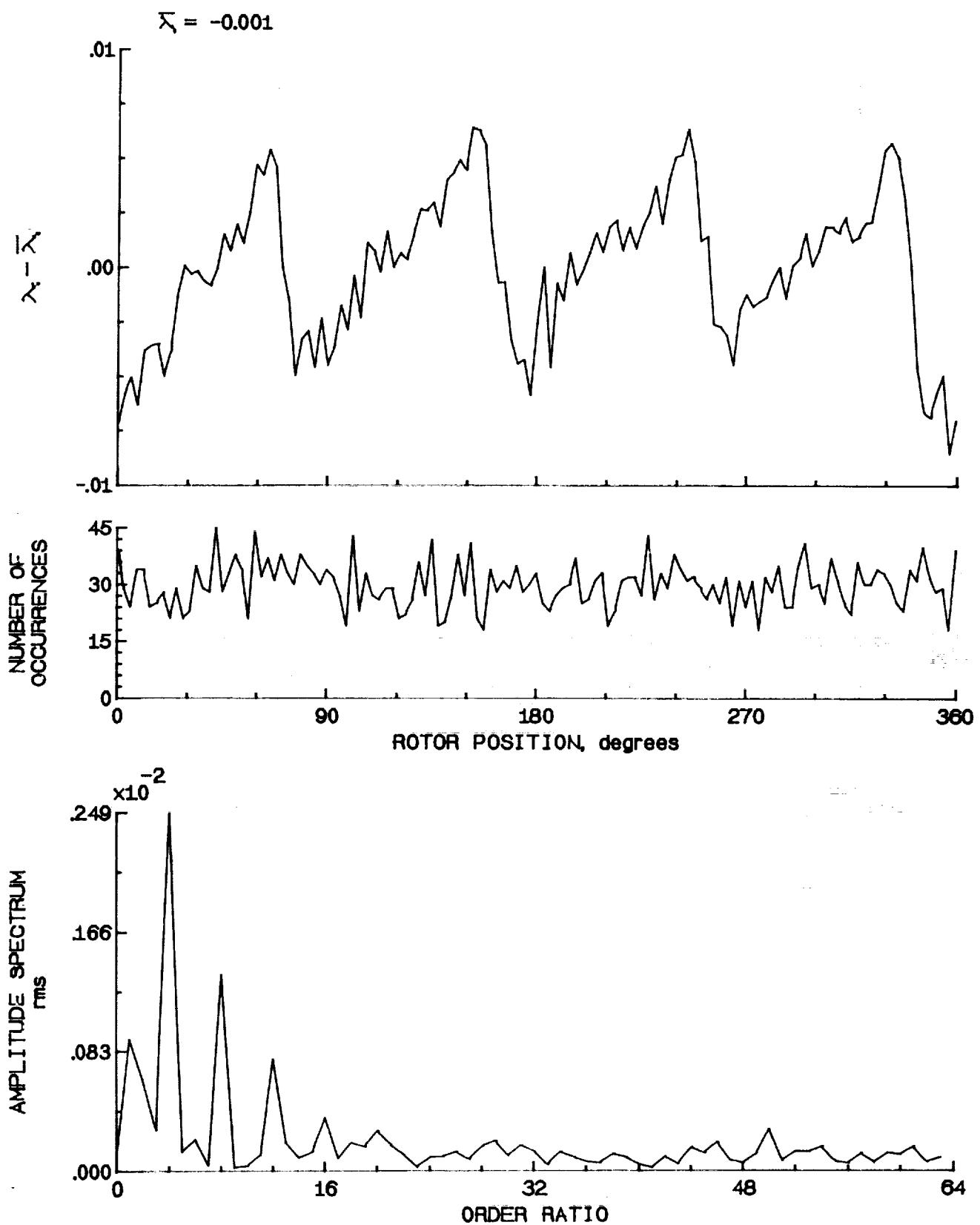


Figure 54.- Concluded.

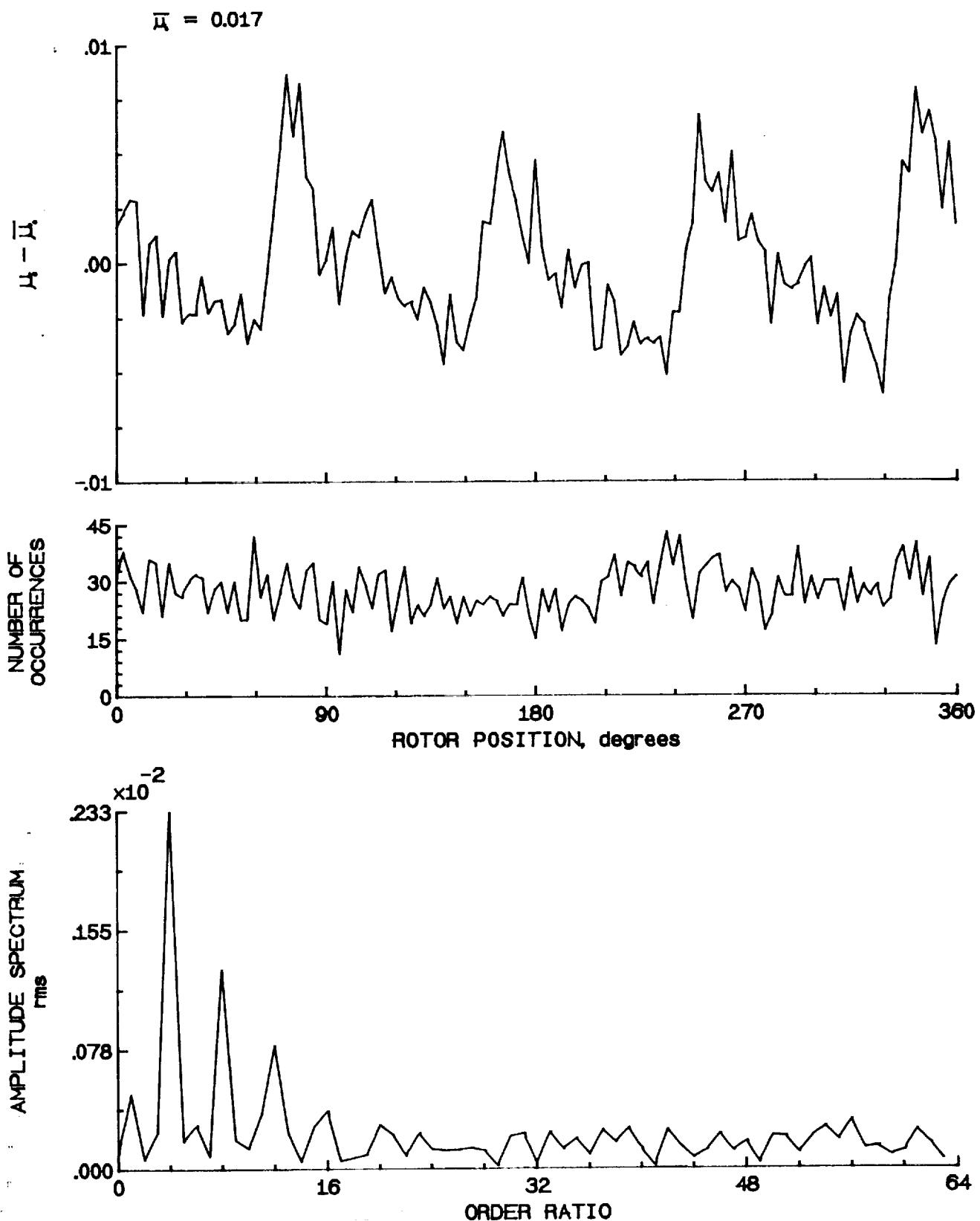


Figure 55.- Induced inflow velocity measured at 60 degrees and r/R of 0.73.

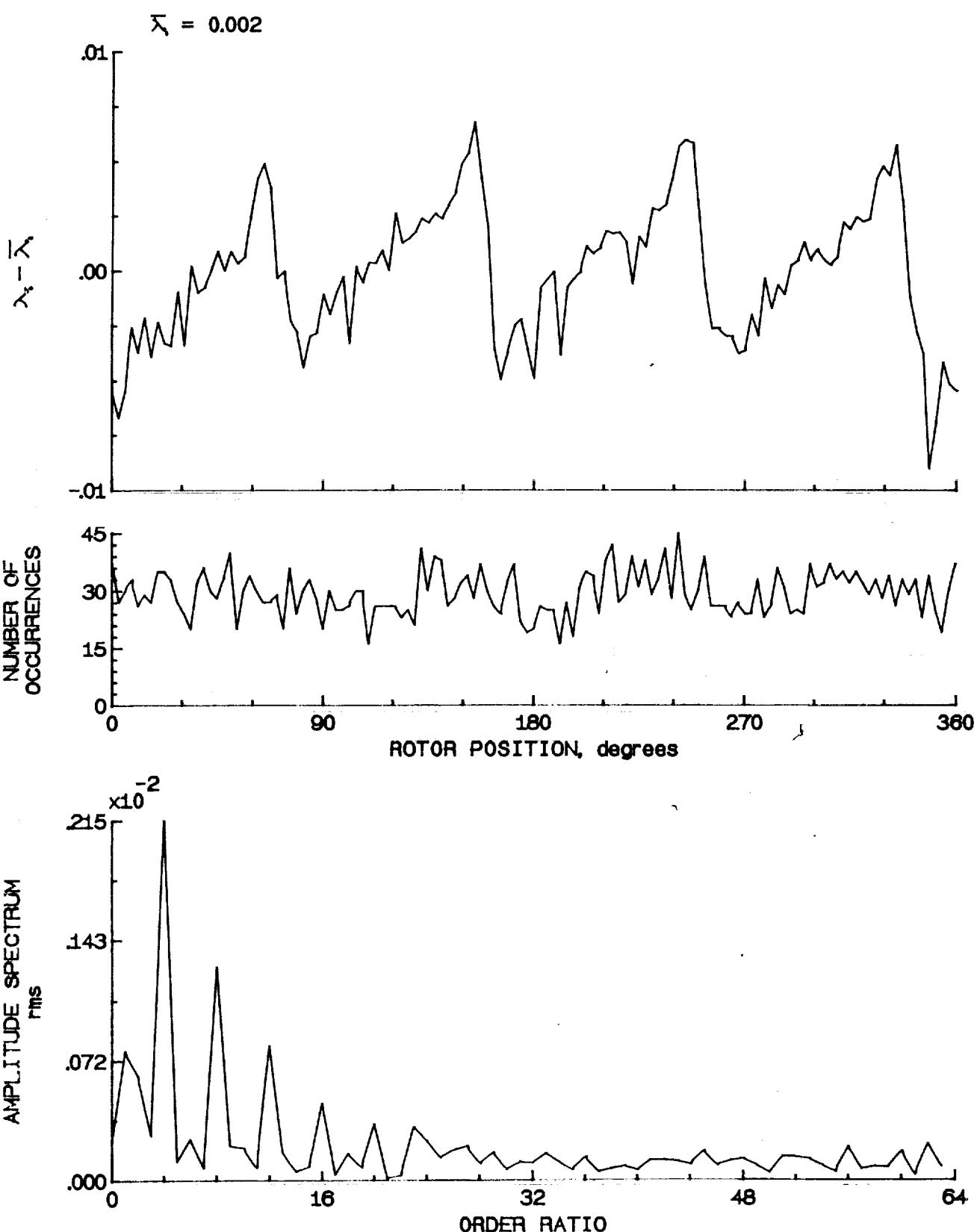


Figure 55.- Concluded.

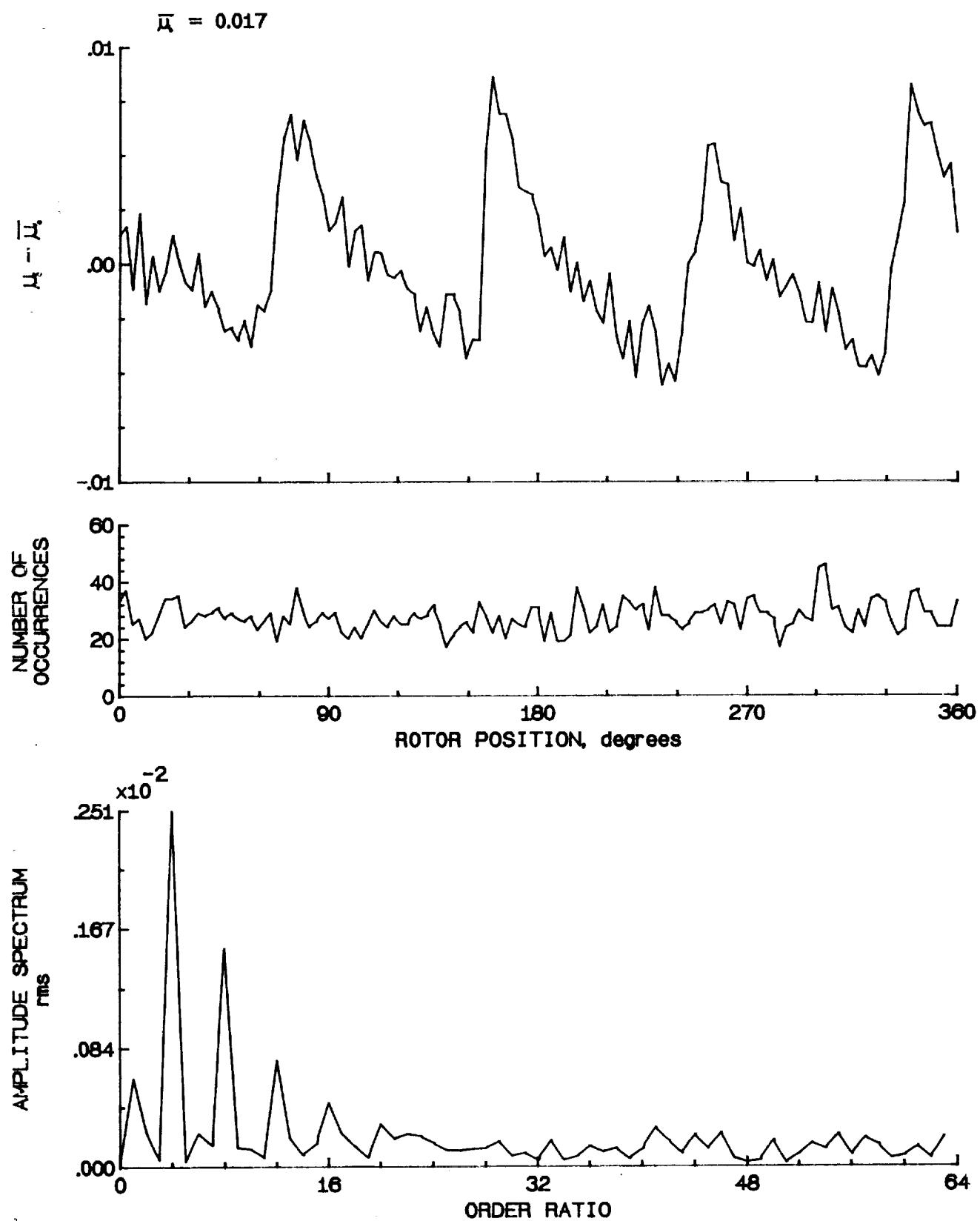


Figure 56.- Induced inflow velocity measured at 60 degrees and r/R of 0.75.

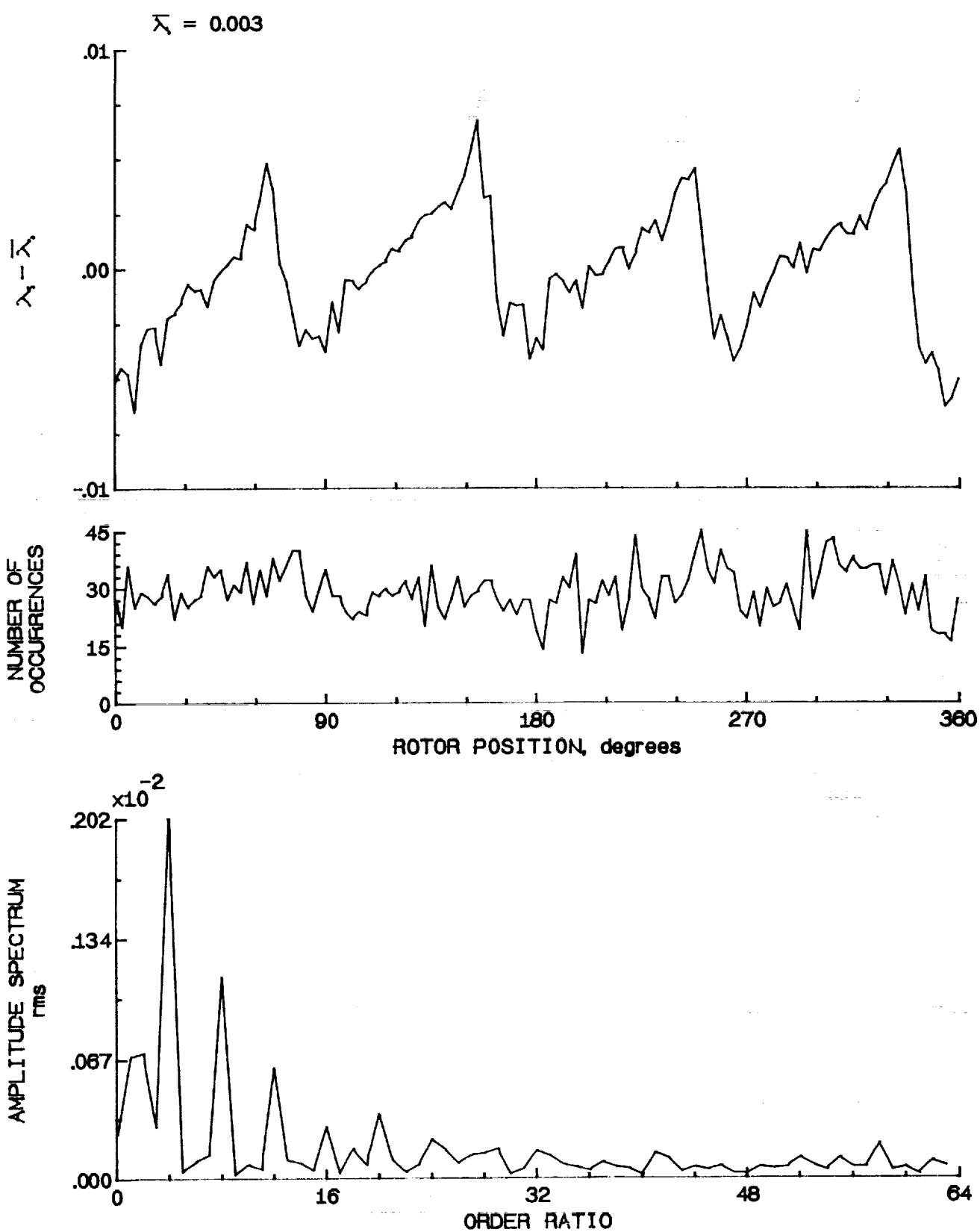


Figure 56.- Concluded.

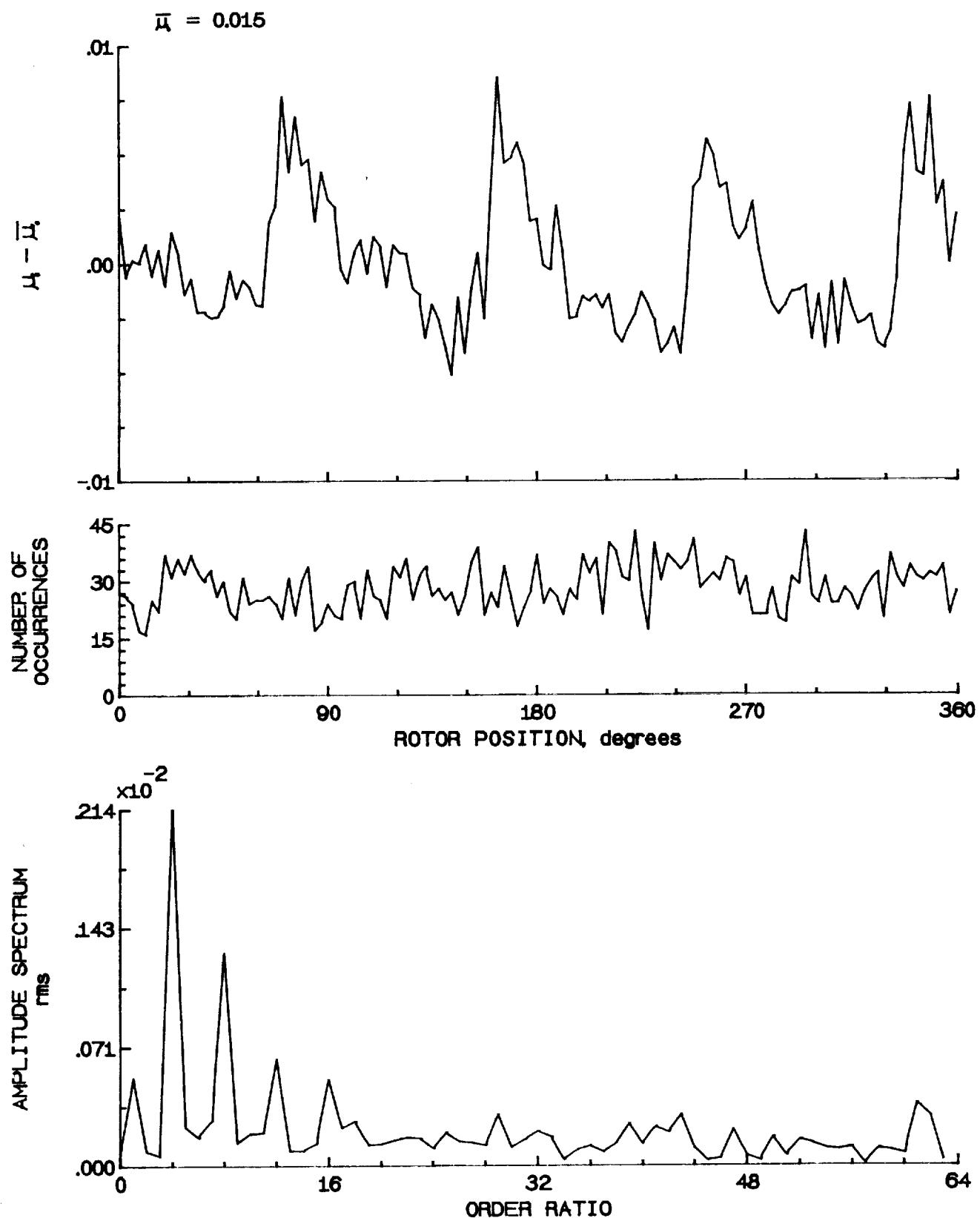


Figure 57.- Induced inflow velocity measured at 60 degrees and r/R of 0.81.

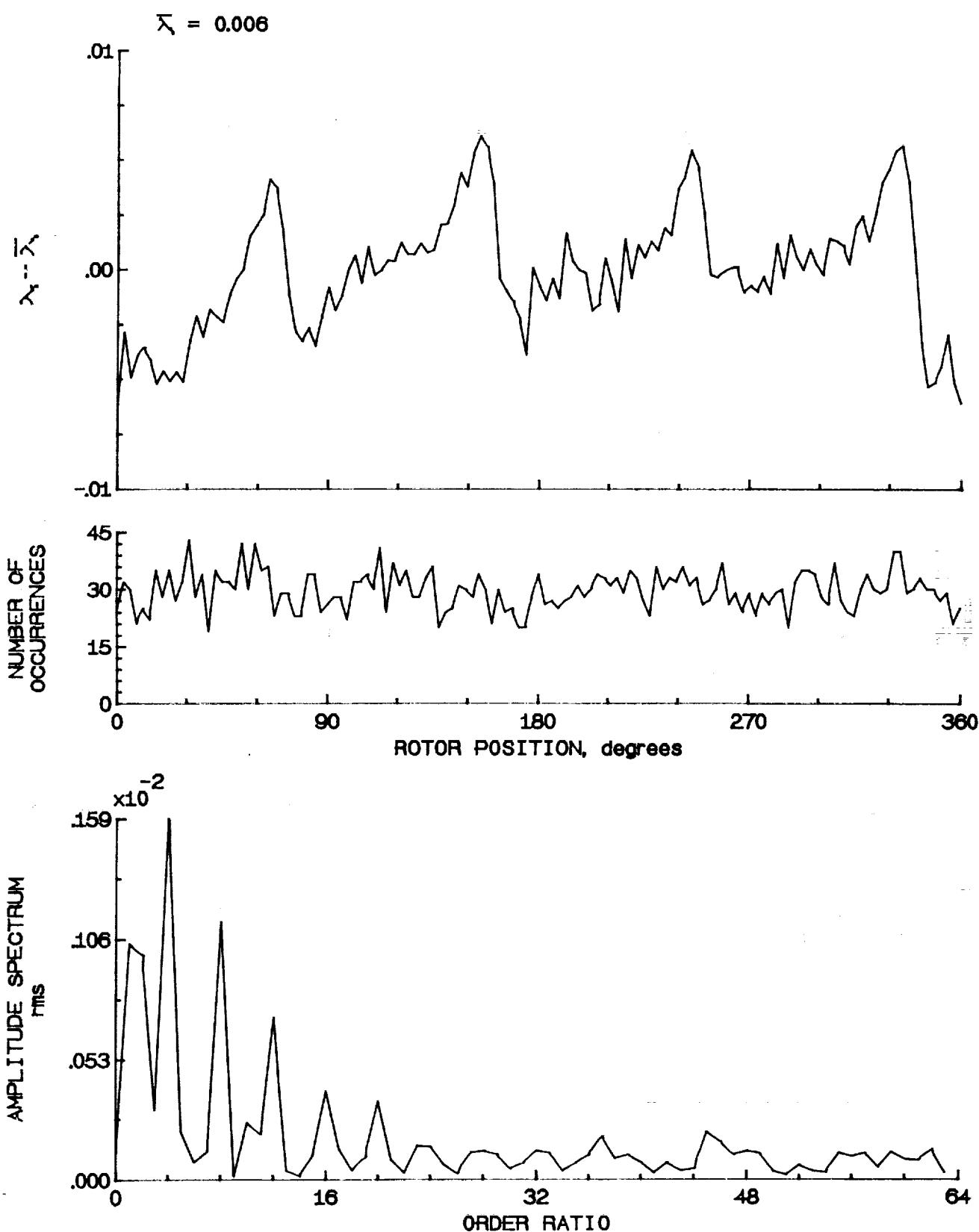


Figure 57.- Concluded.

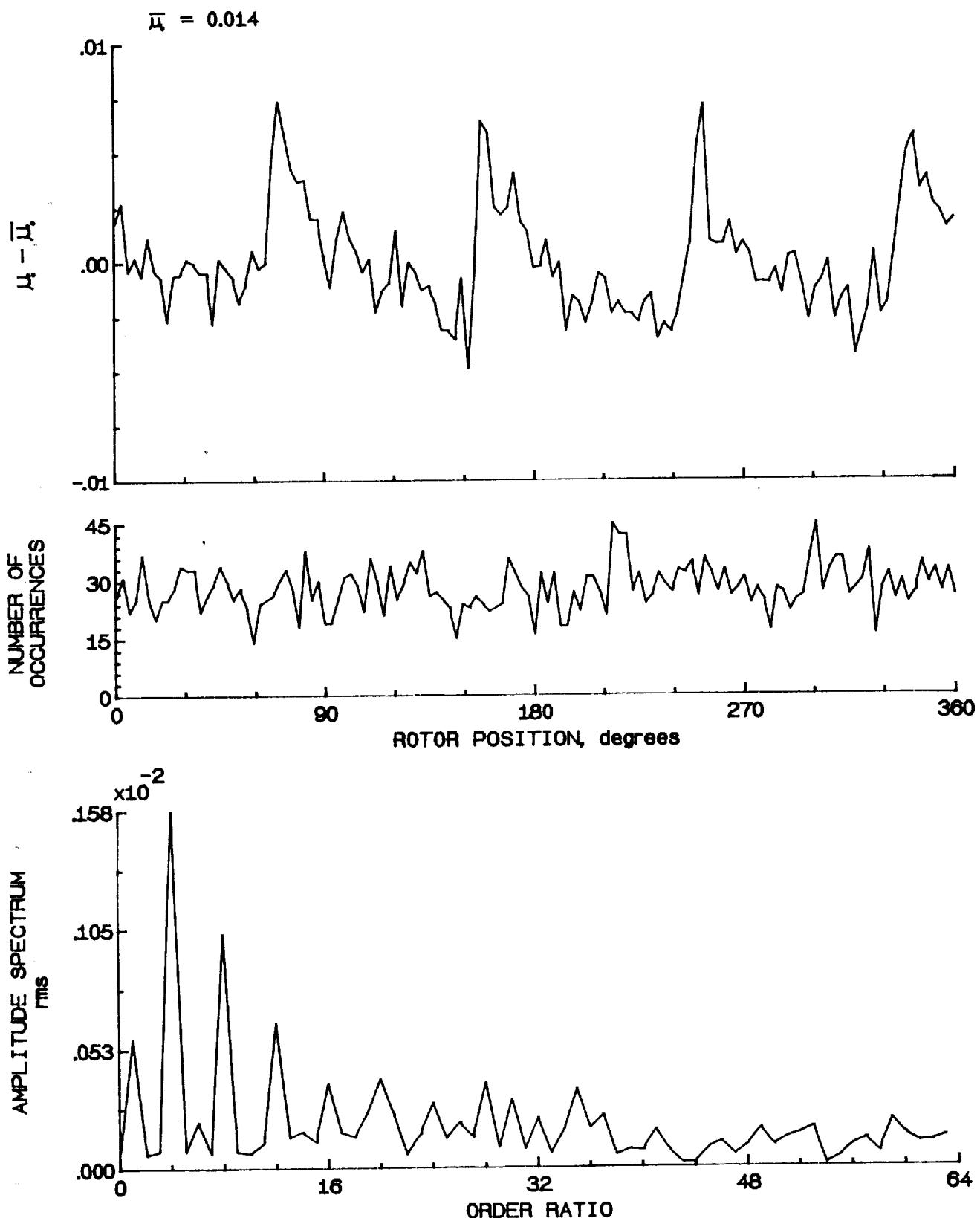


Figure 58.- Induced inflow velocity measured at 60 degrees and r/R of 0.86.

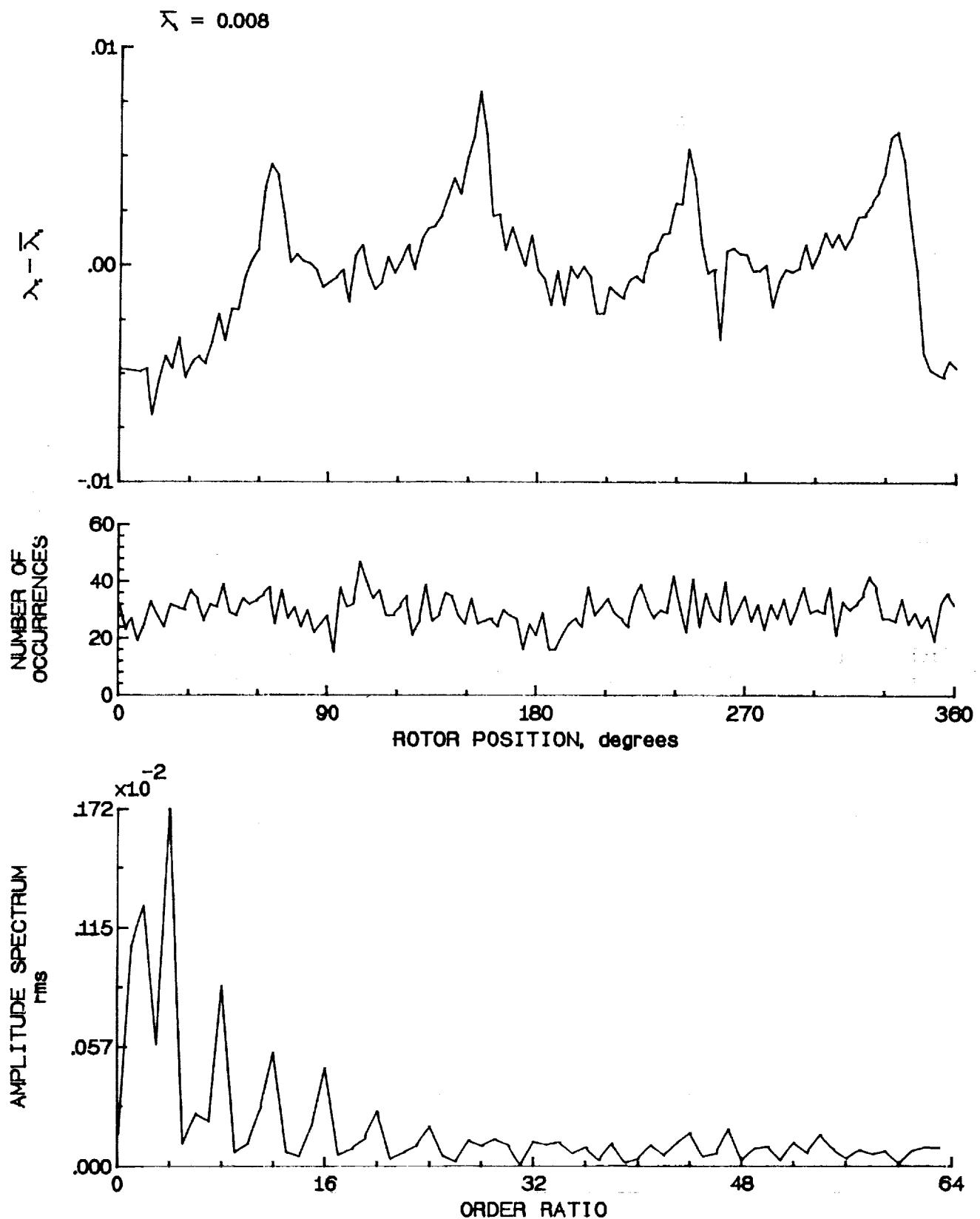


Figure 58.- Concluded.

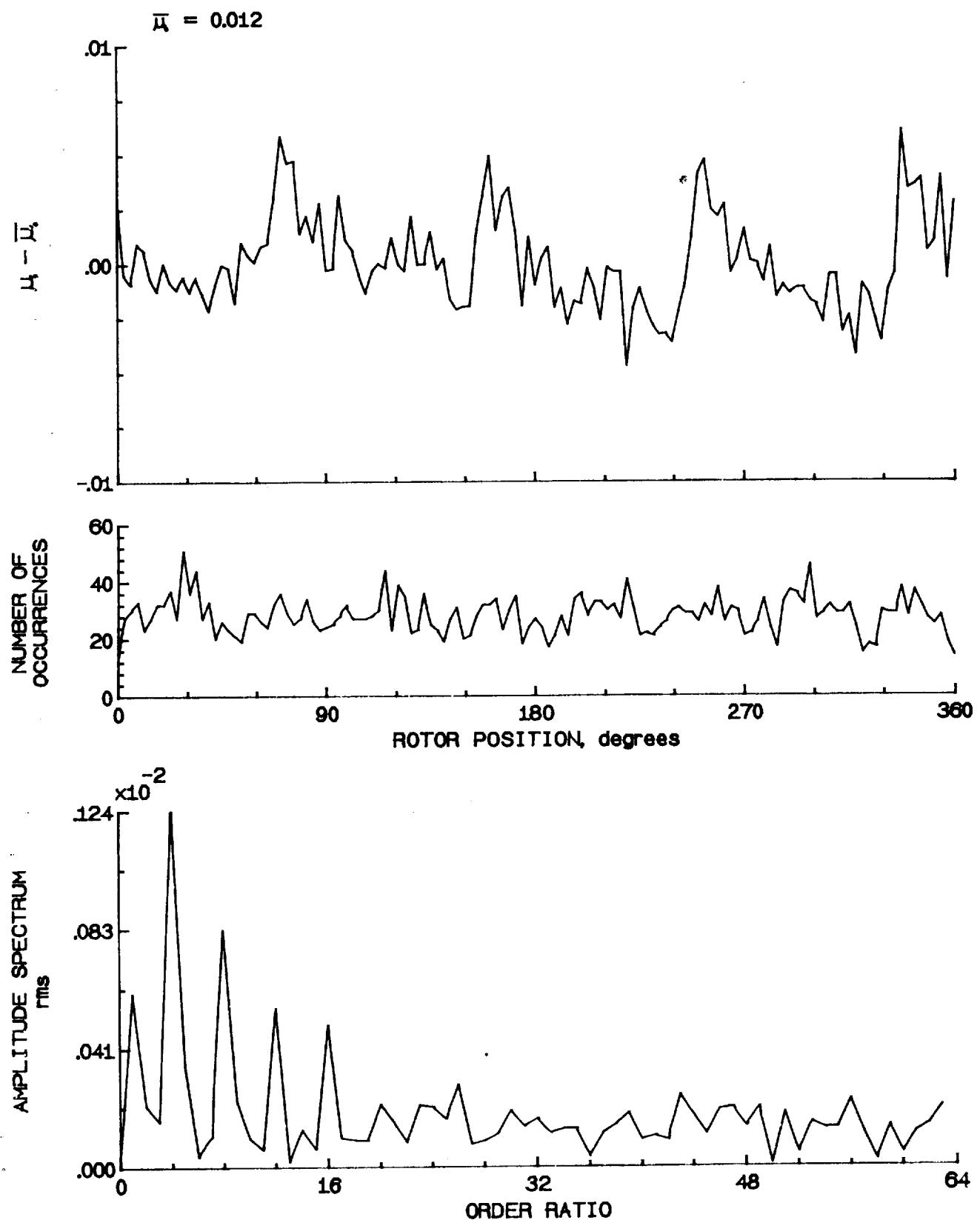


Figure 59.- Induced inflow velocity measured at 60 degrees and r/R of 0.90.

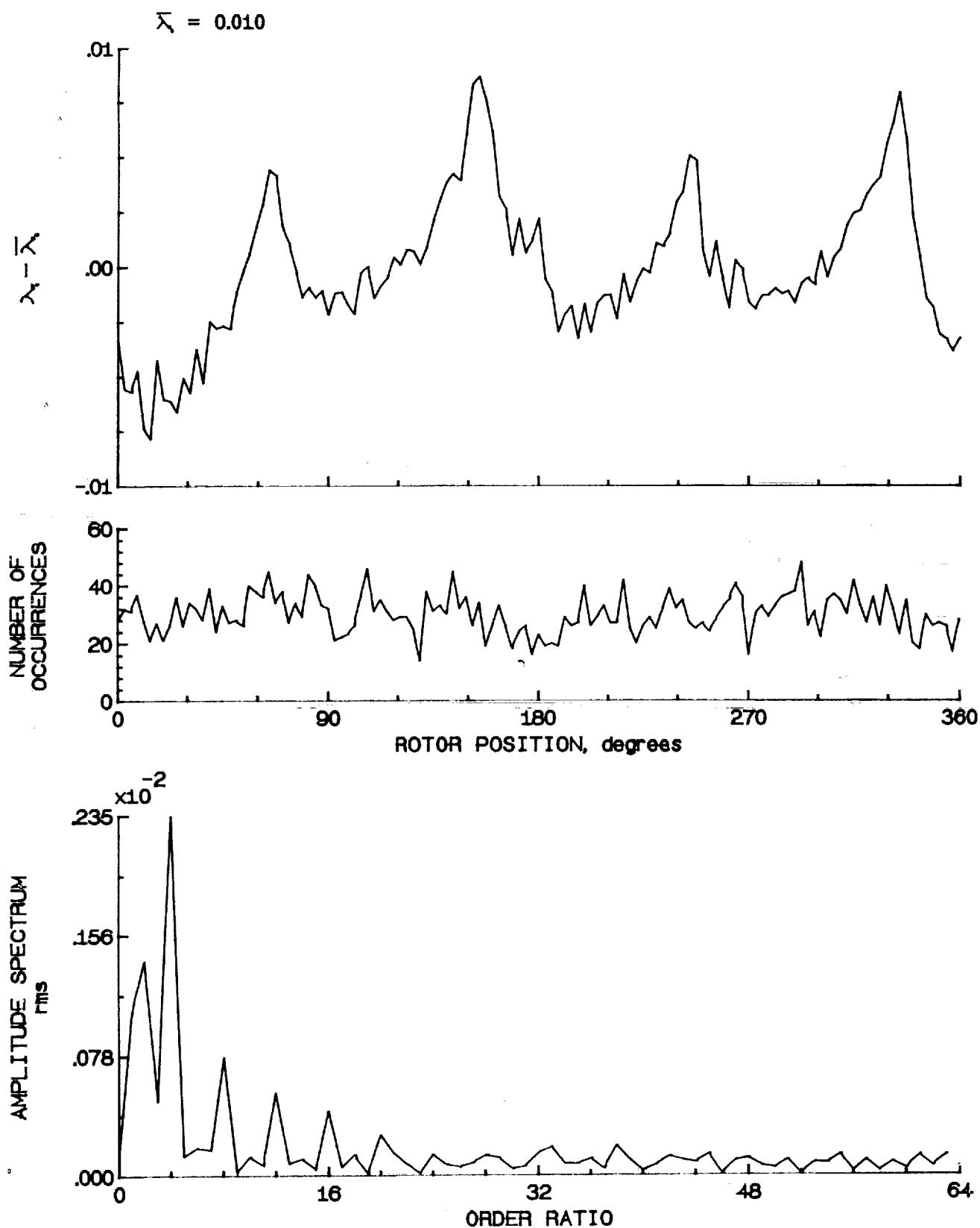


Figure 59.- Concluded.

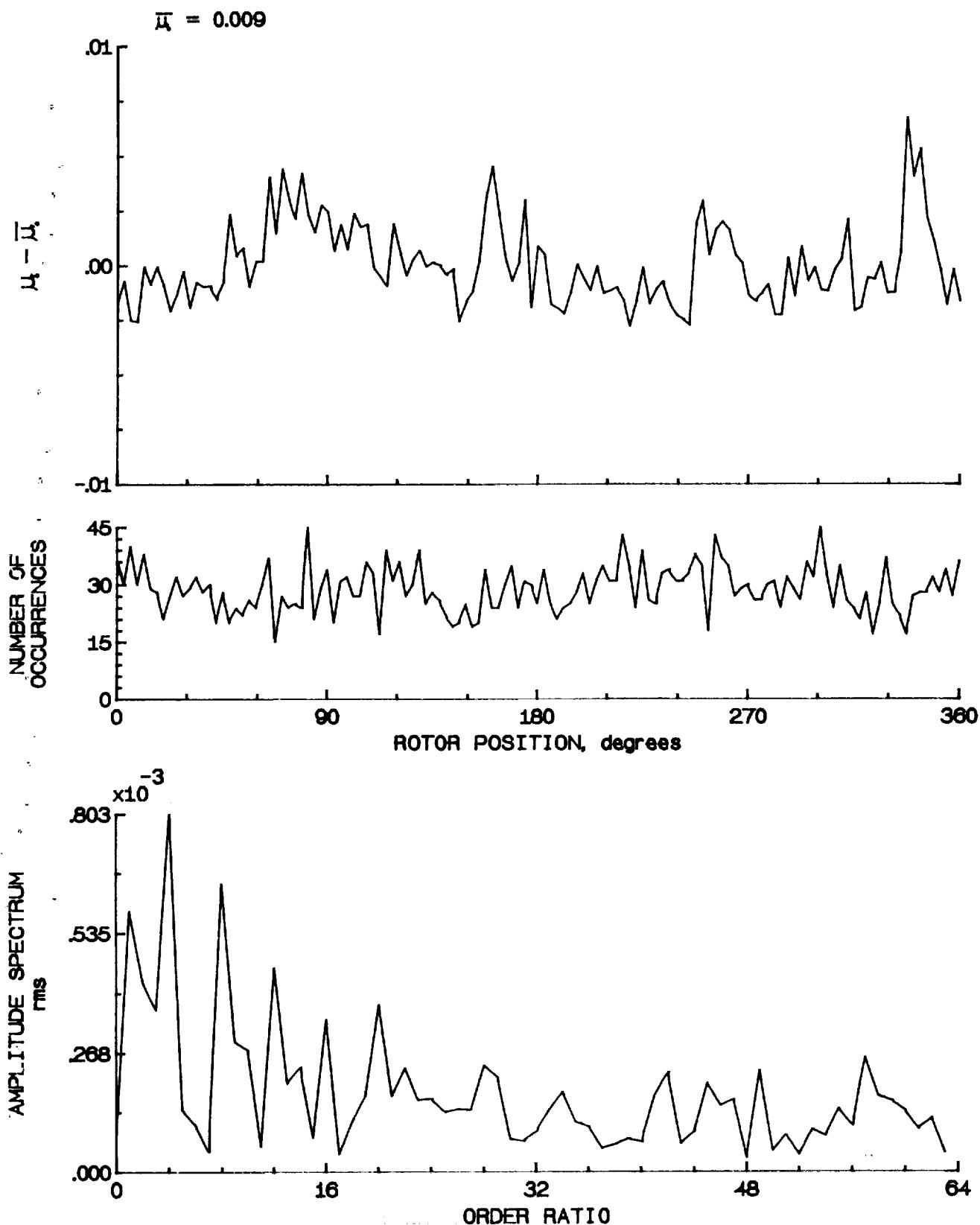


Figure 60.- Induced inflow velocity measured at 60 degrees and r/R of 0.96.

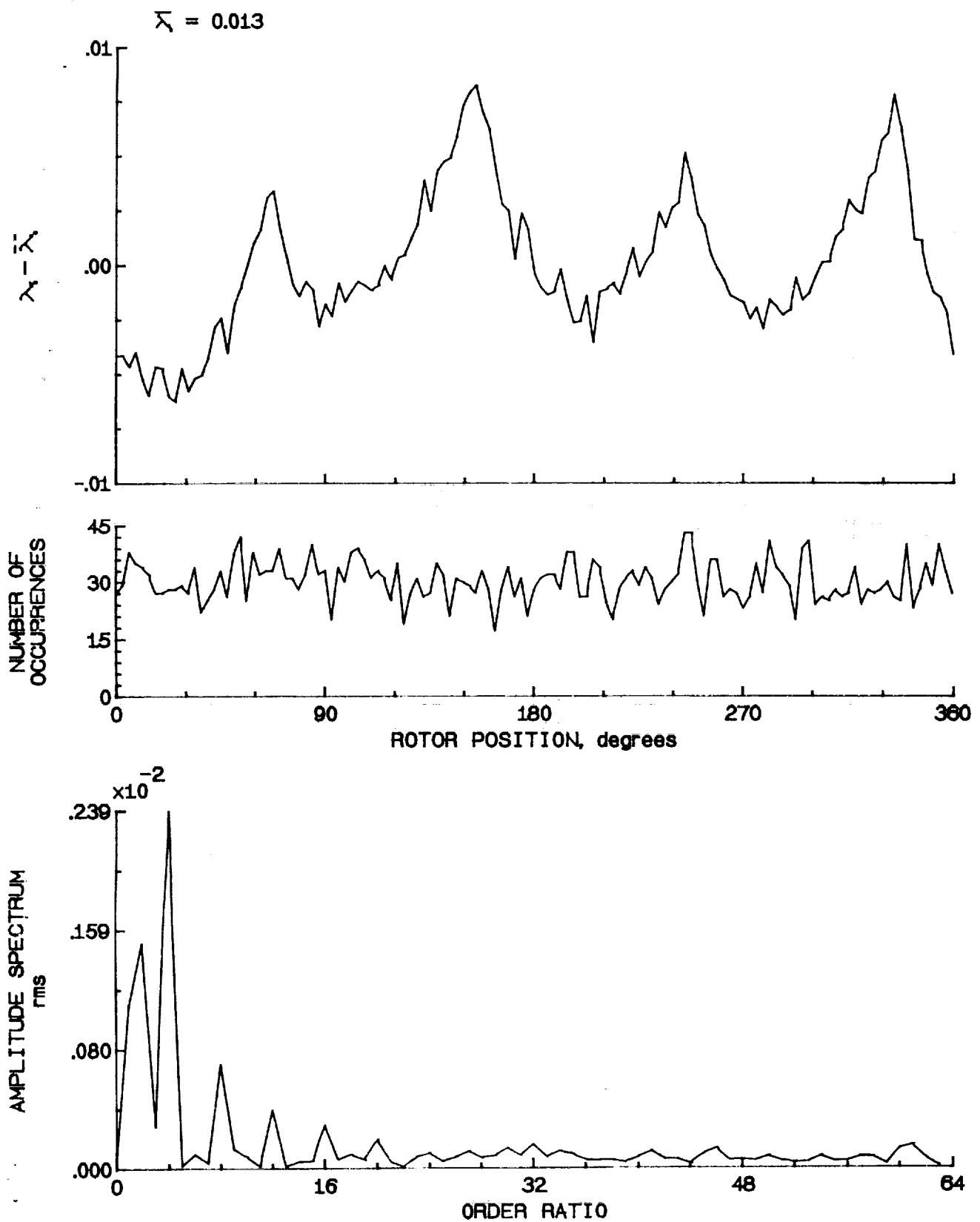


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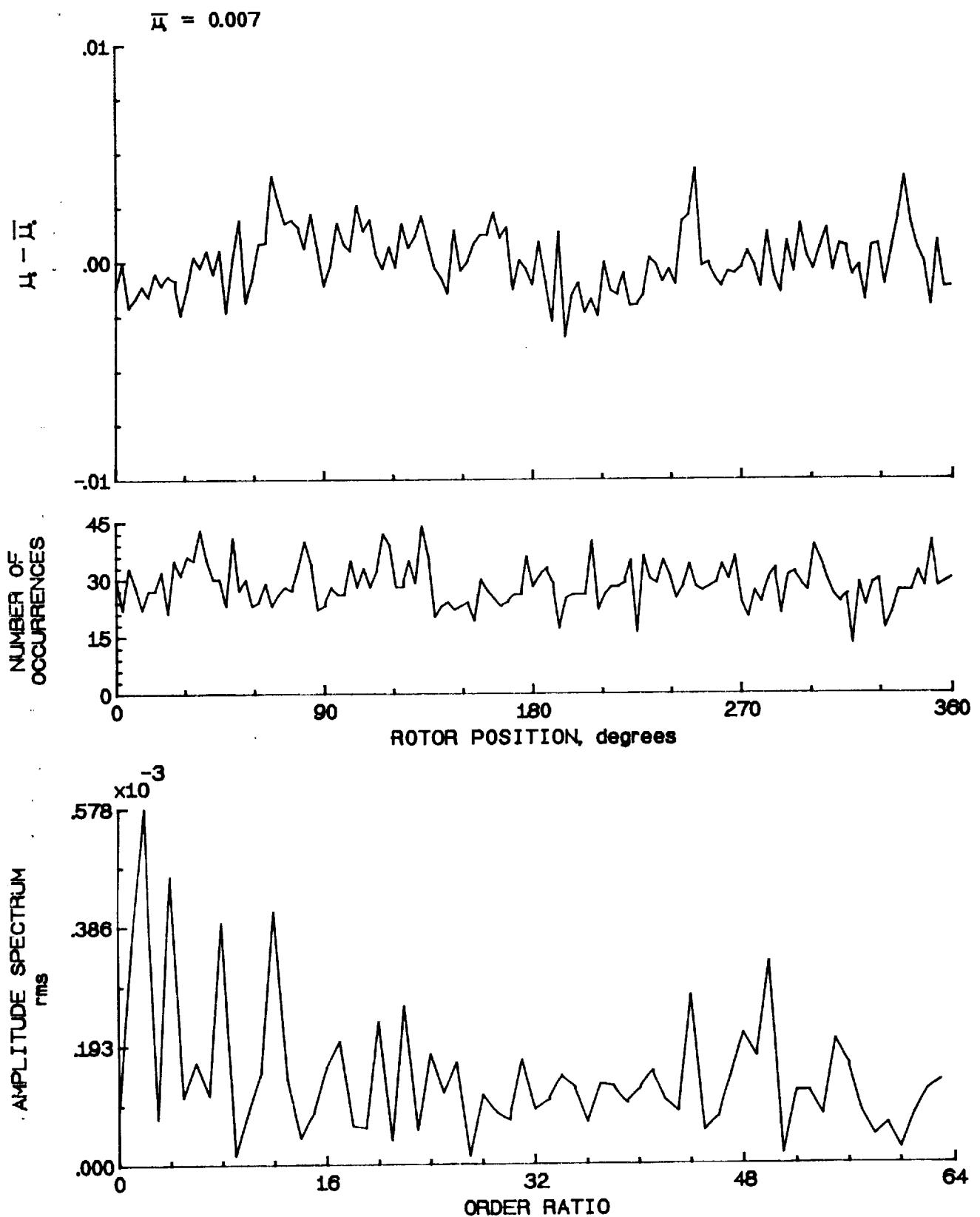


Figure 61.- Induced inflow velocity measured at 60 degrees and r/R of 1.00.

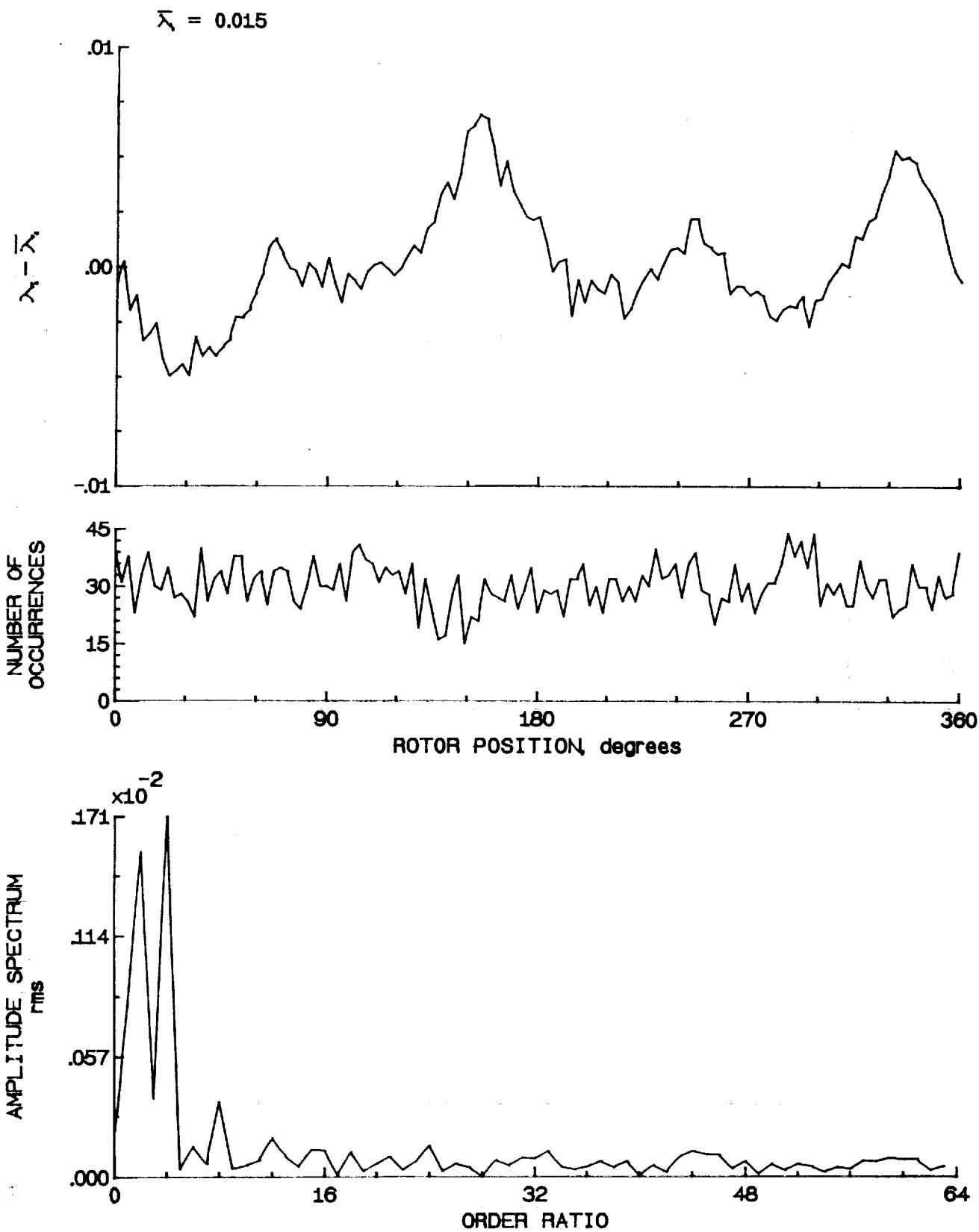


Figure 61- Concluded.

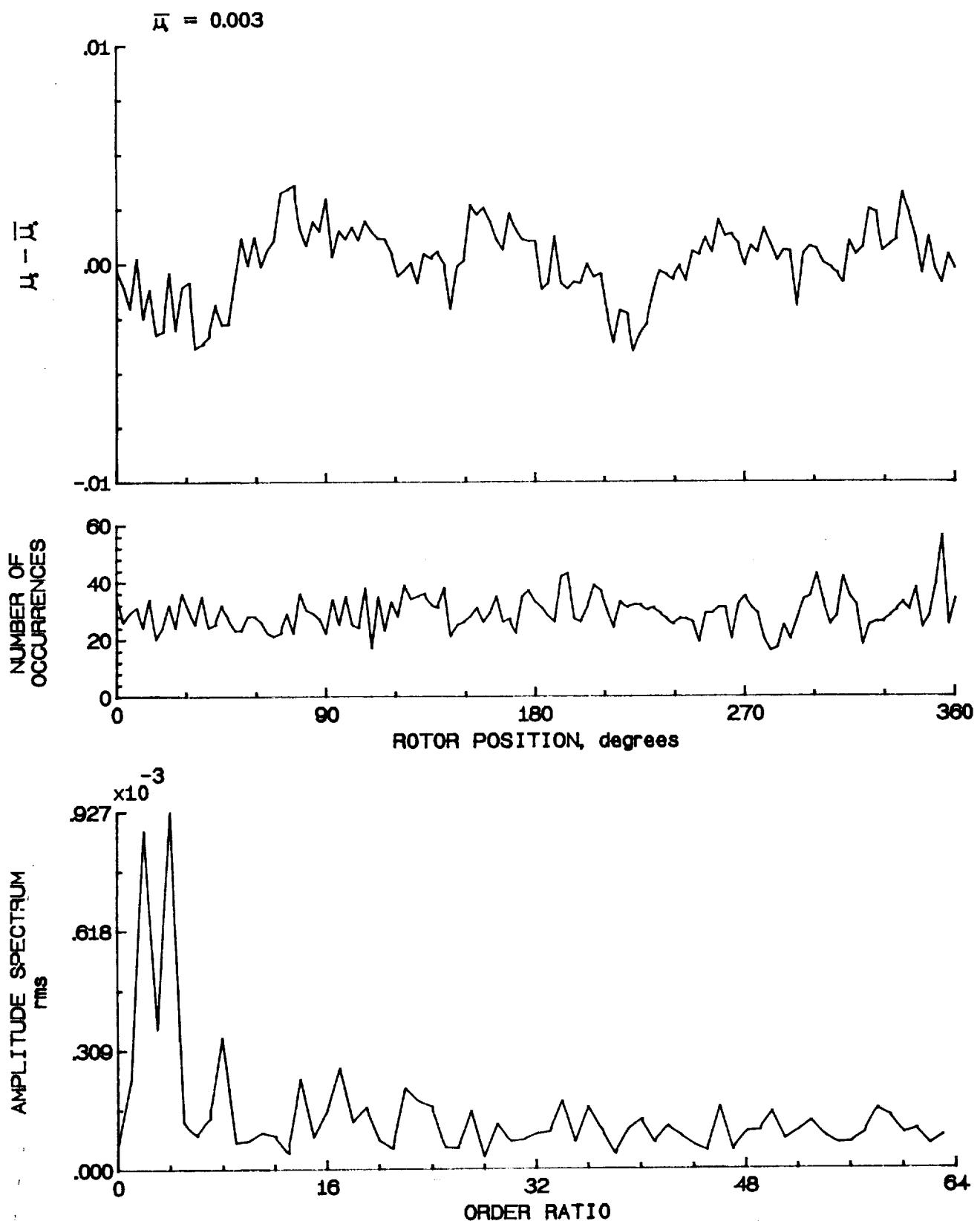


Figure 62.- Induced inflow velocity measured at 60 degrees and r/R of 1.10.

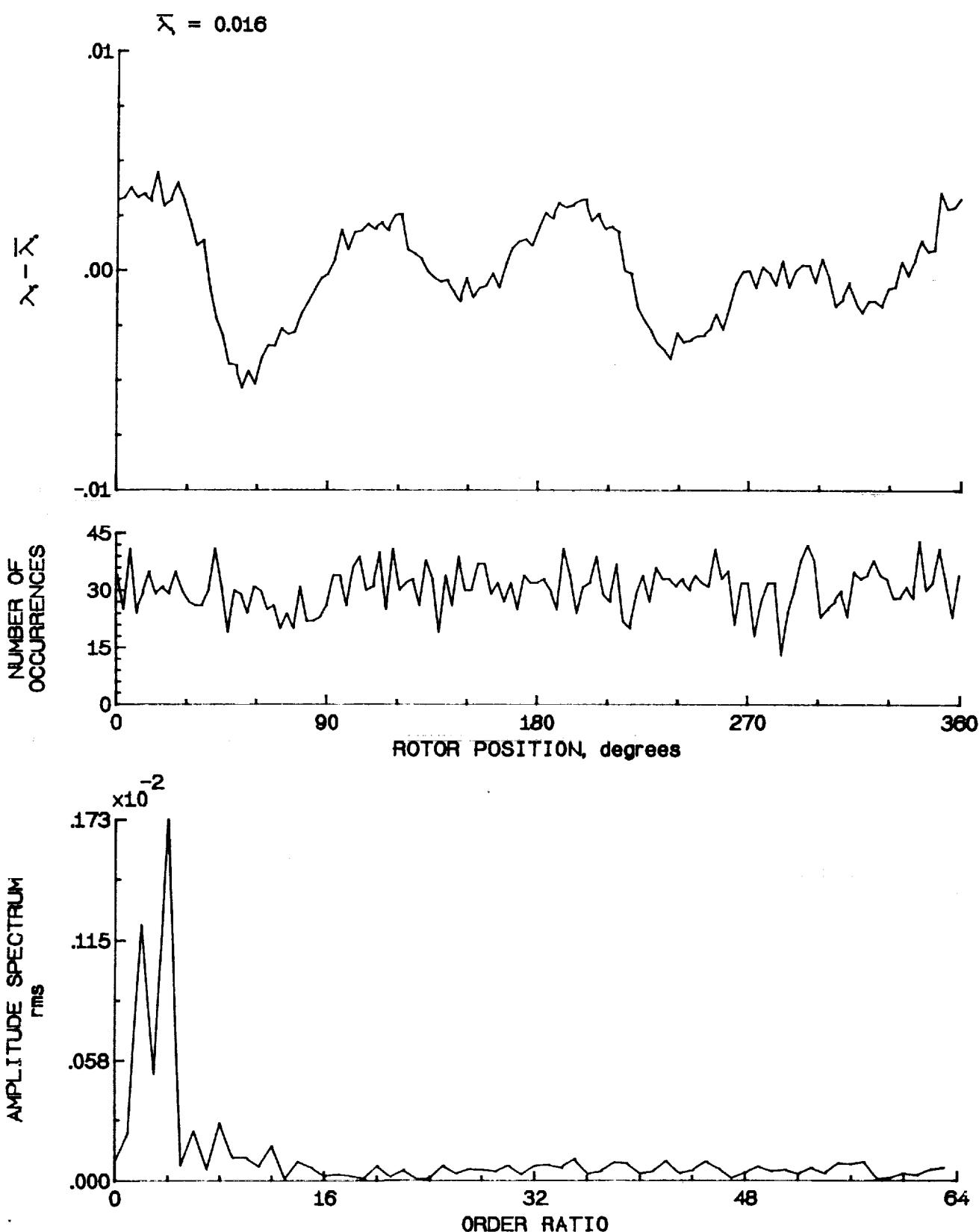


Figure 62.- Concluded.

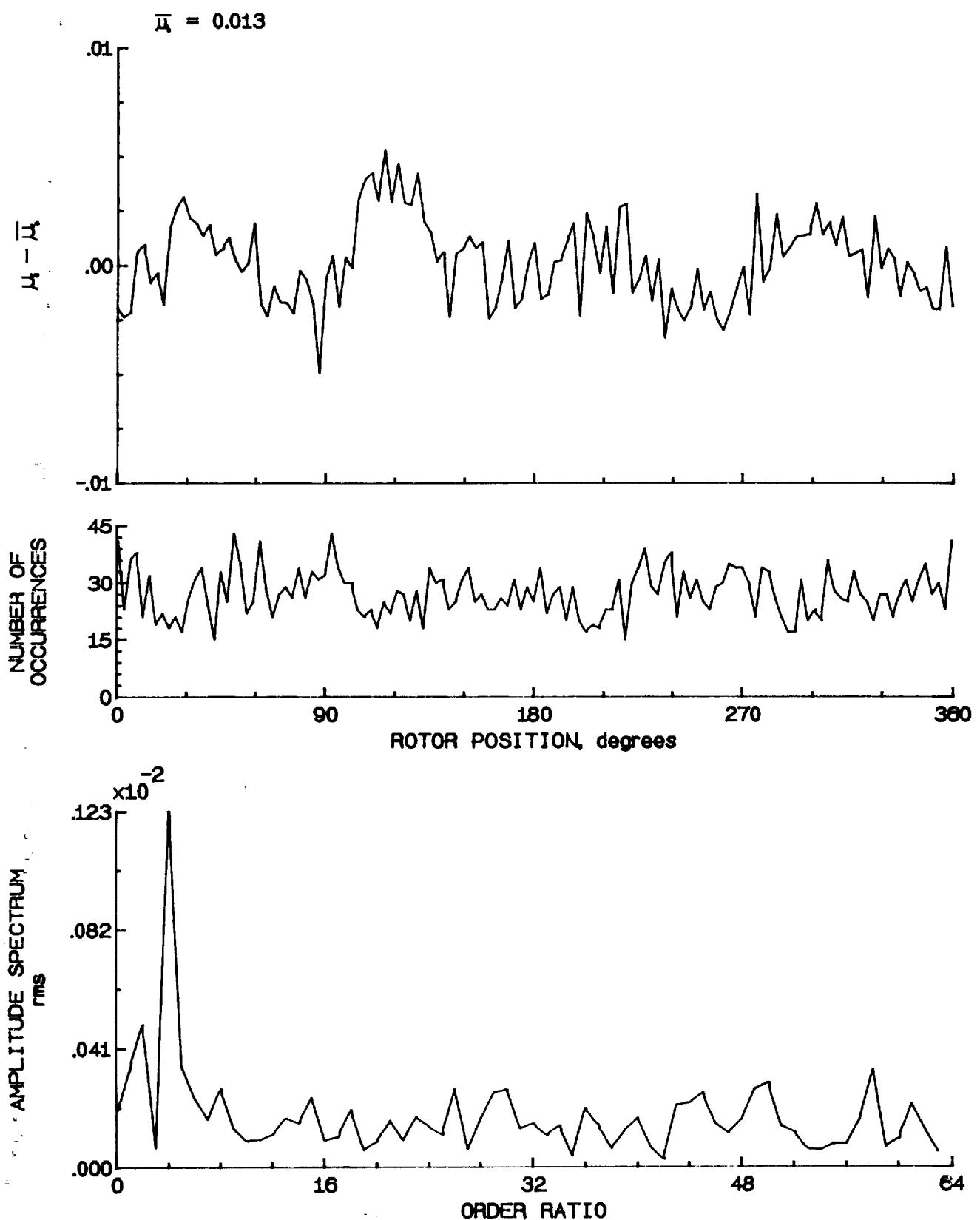


Figure 63.- Induced inflow velocity measured at 90 degrees and r/R of 0.20.

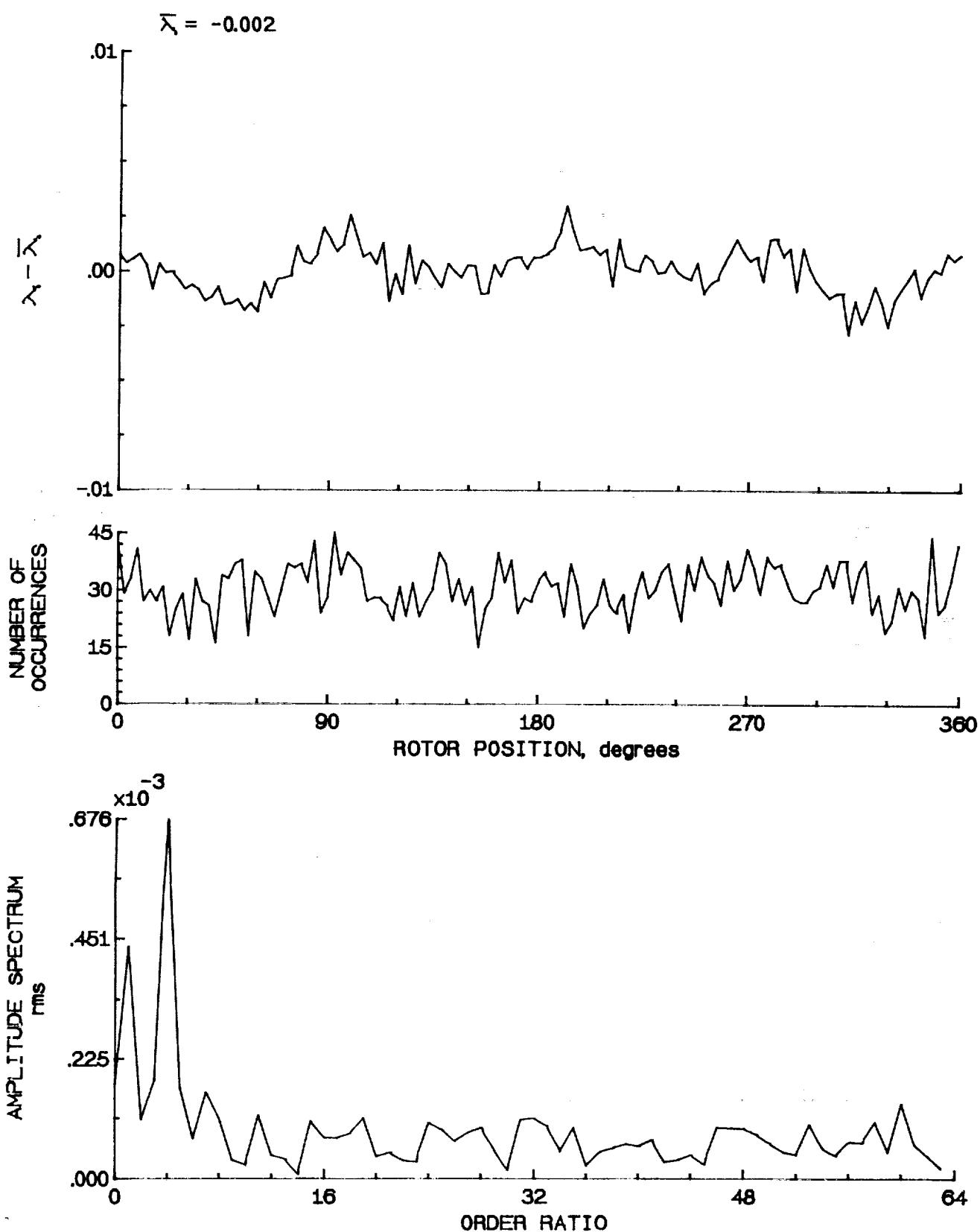


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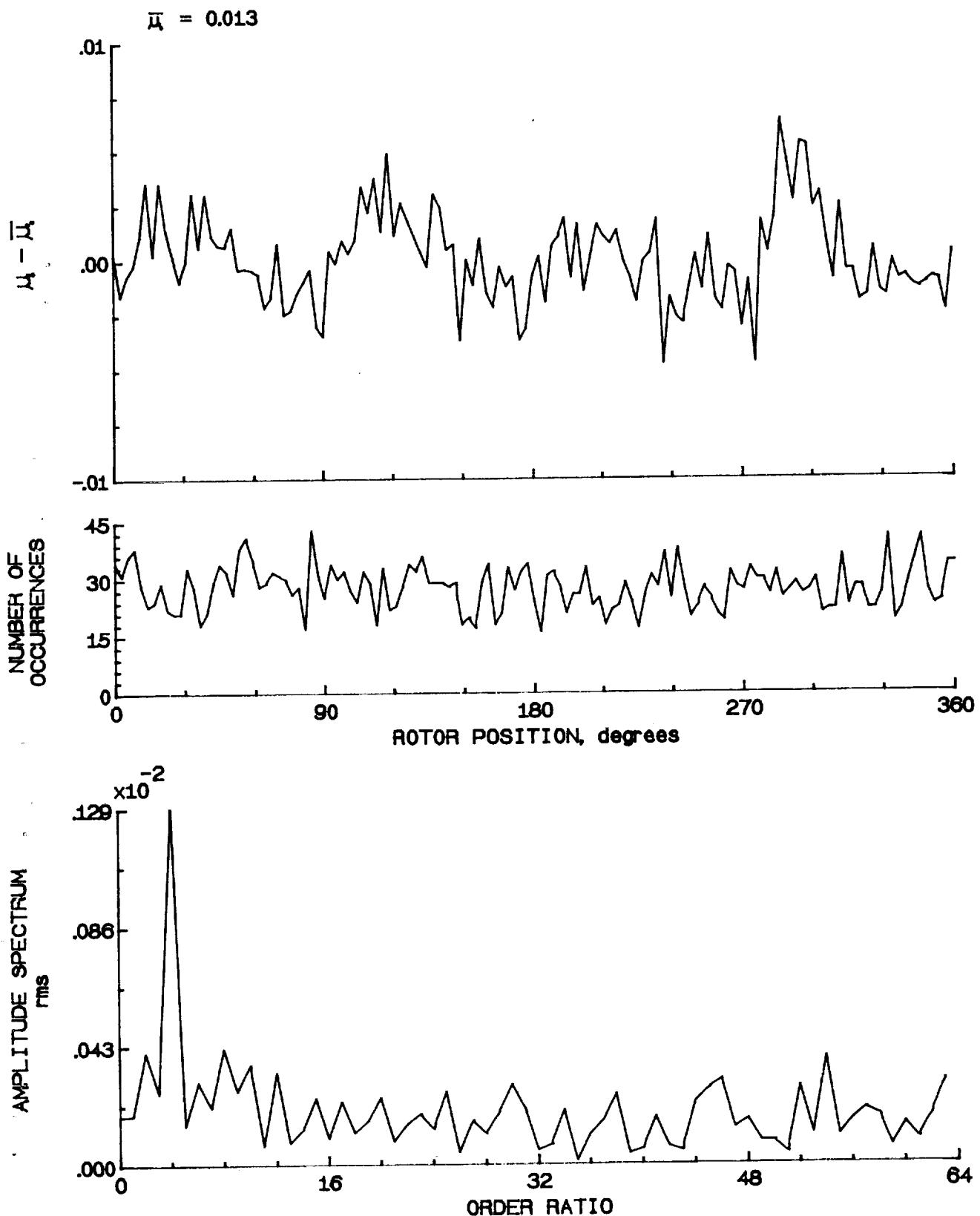


Figure 64.- Induced inflow velocity measured at 90 degrees and r/R of 0.32.

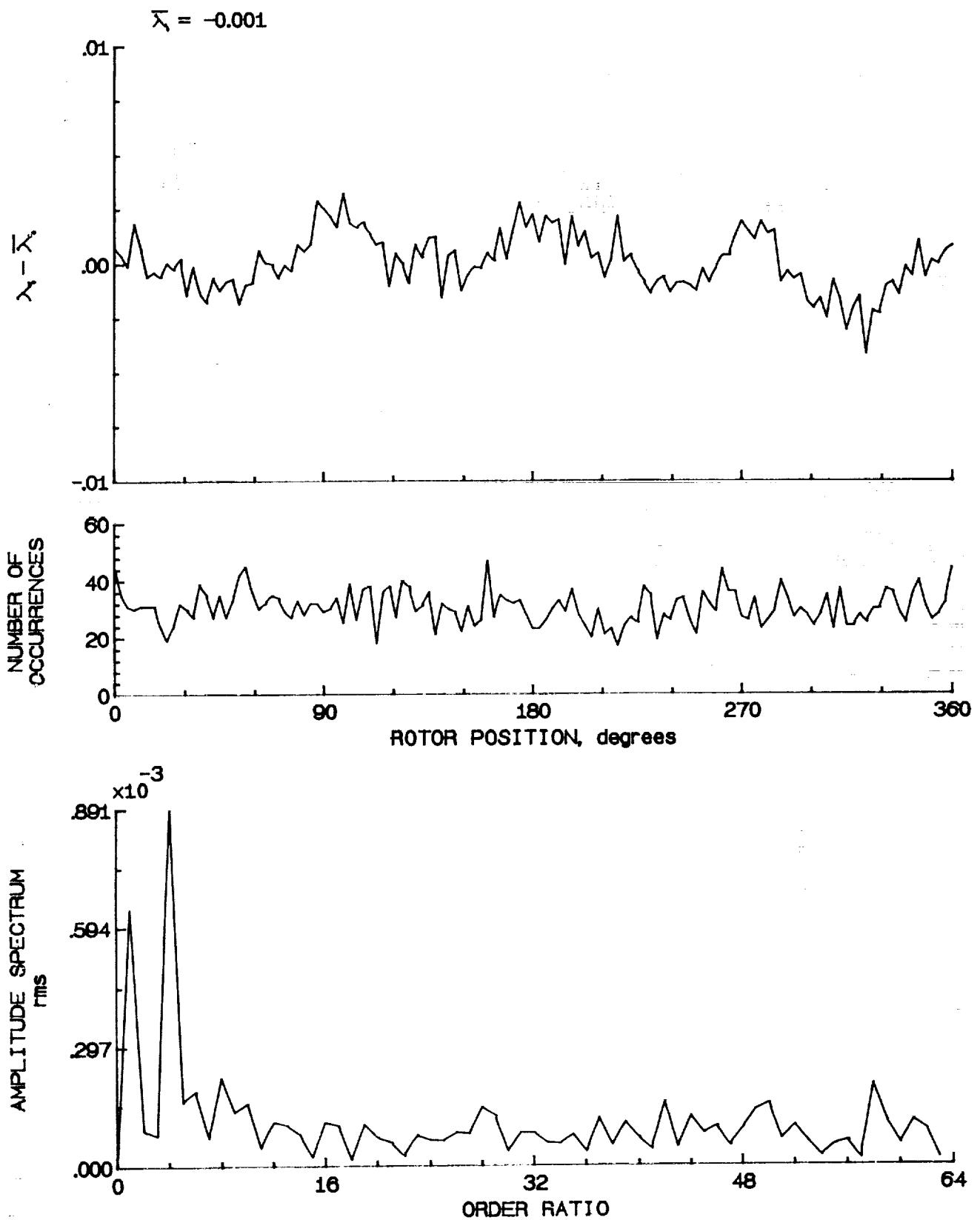


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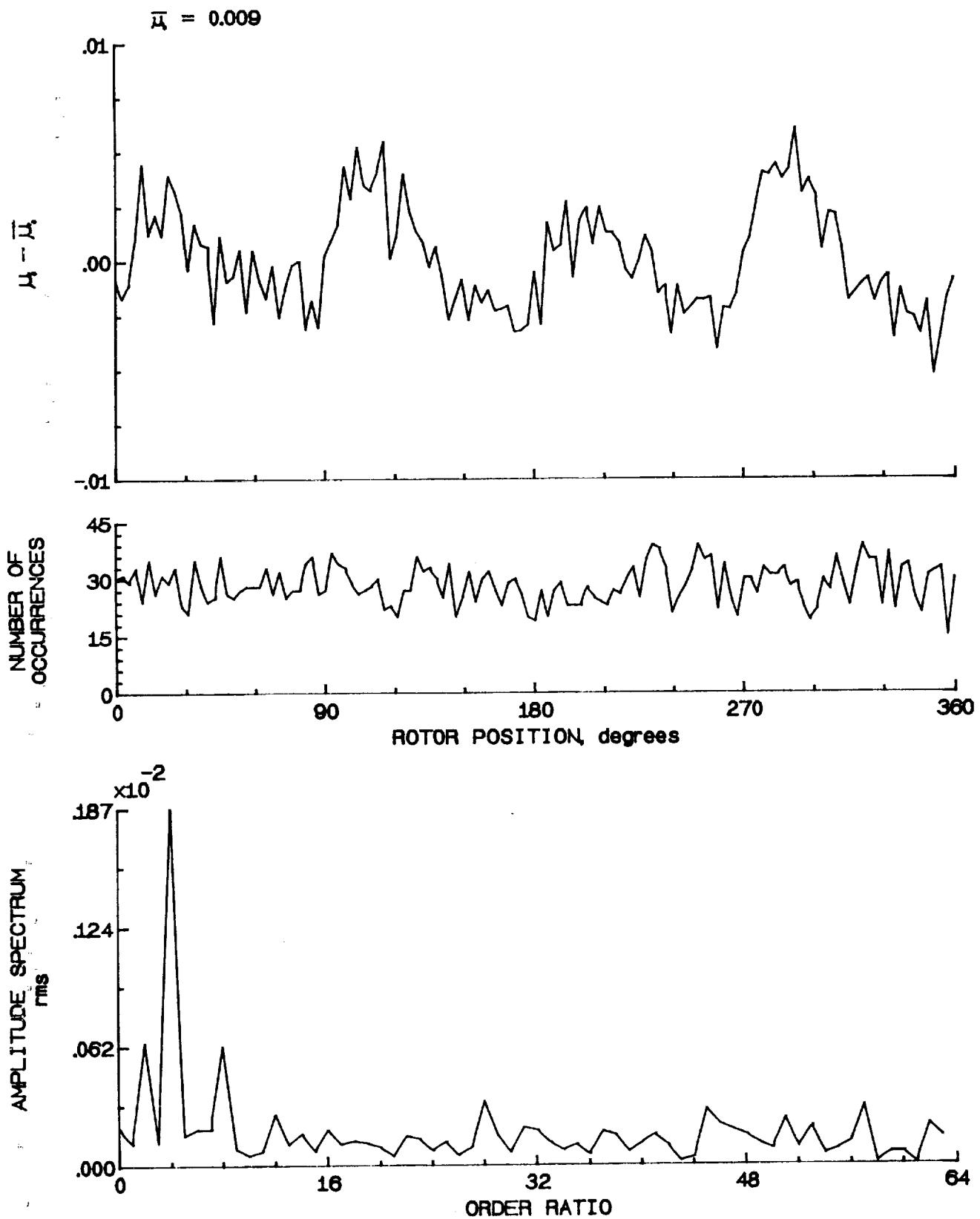


Figure 65.- Induced inflow velocity measured at 90 degrees and r/R of 0.50.

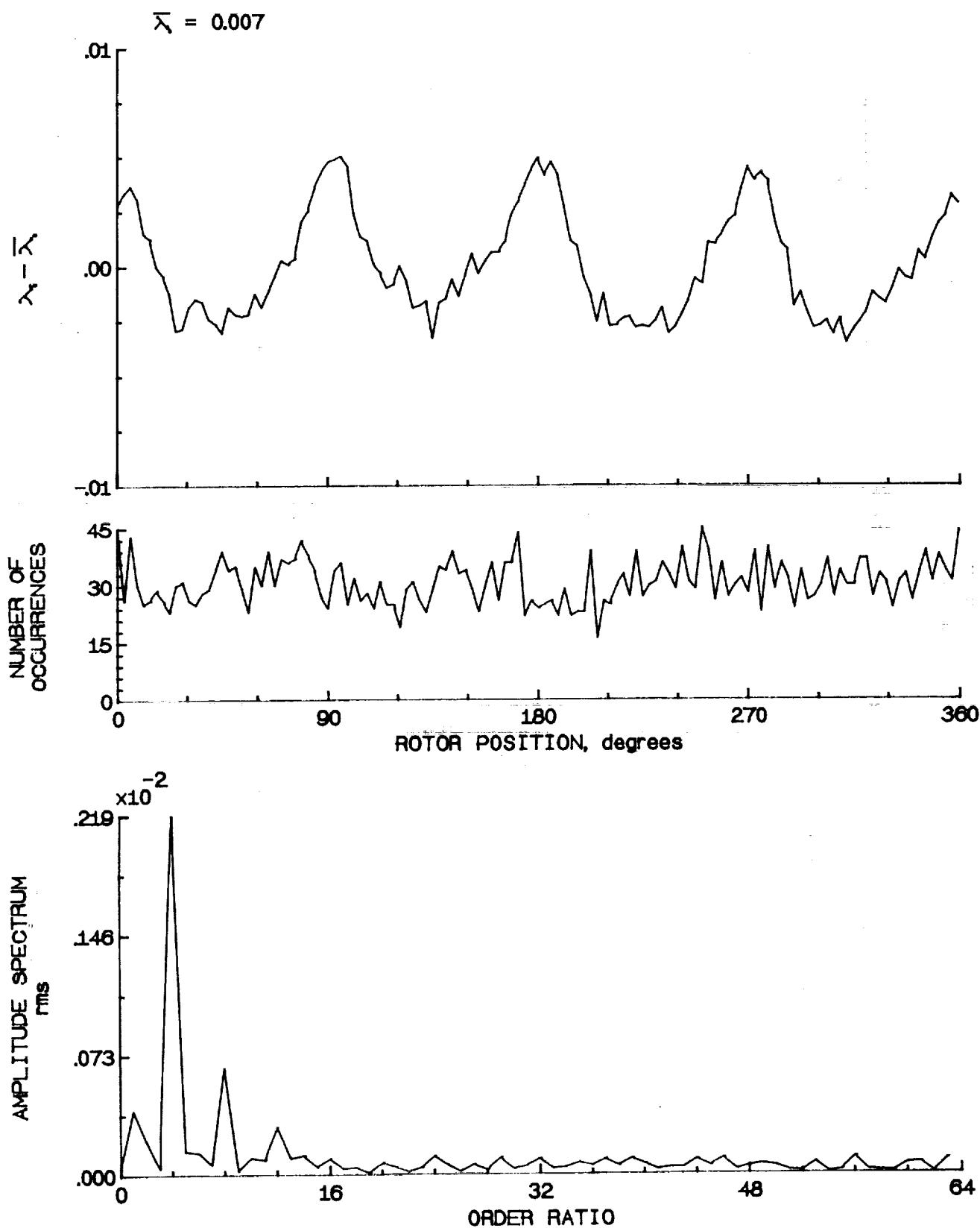


Figure 65.- Concluded.

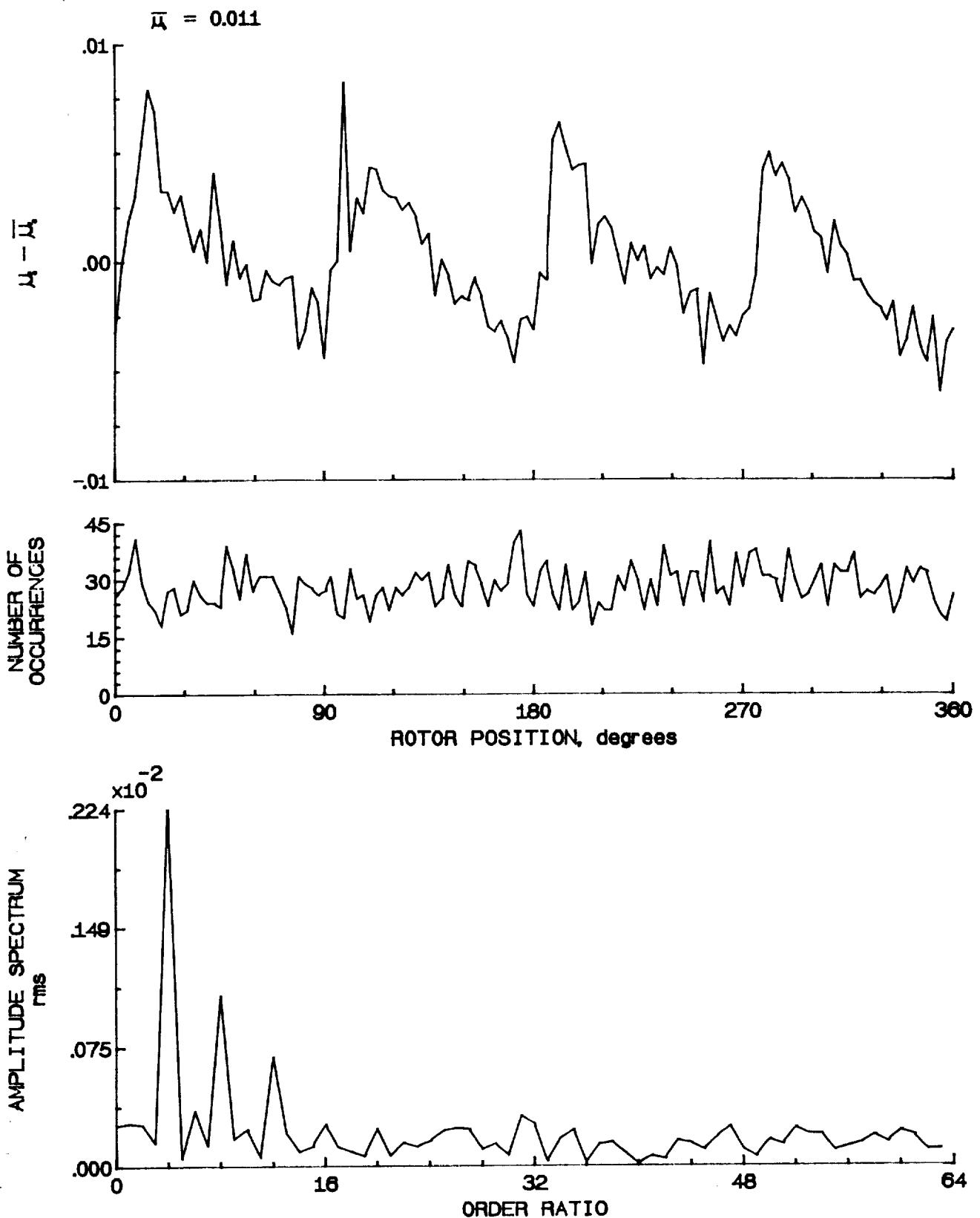


Figure 66.- Induced inflow velocity measured at 90 degrees and r/R of 0.58.

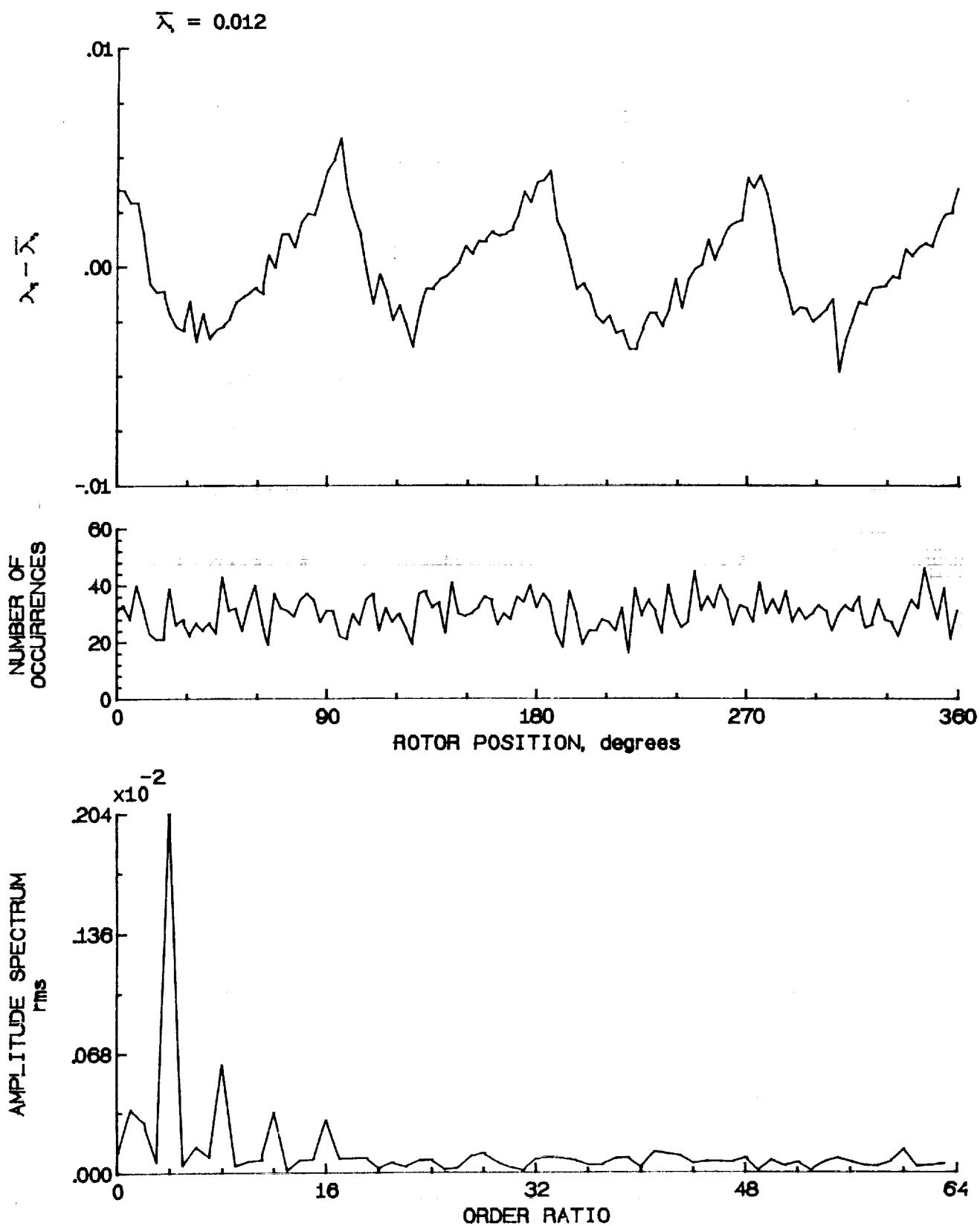


Figure 66.- Concluded.

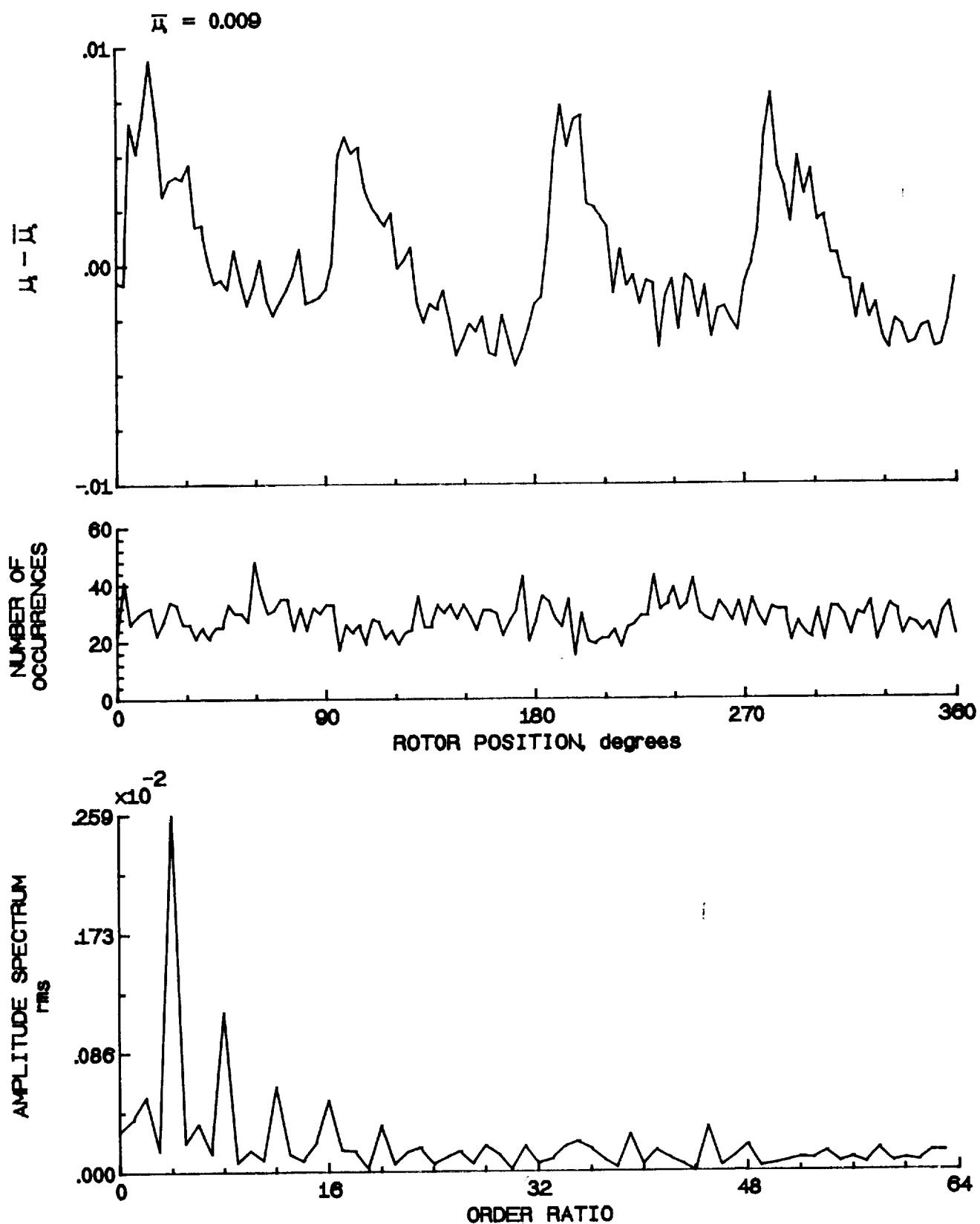


Figure 67.- Induced inflow velocity measured at 90 degrees and r/R of 0.69.

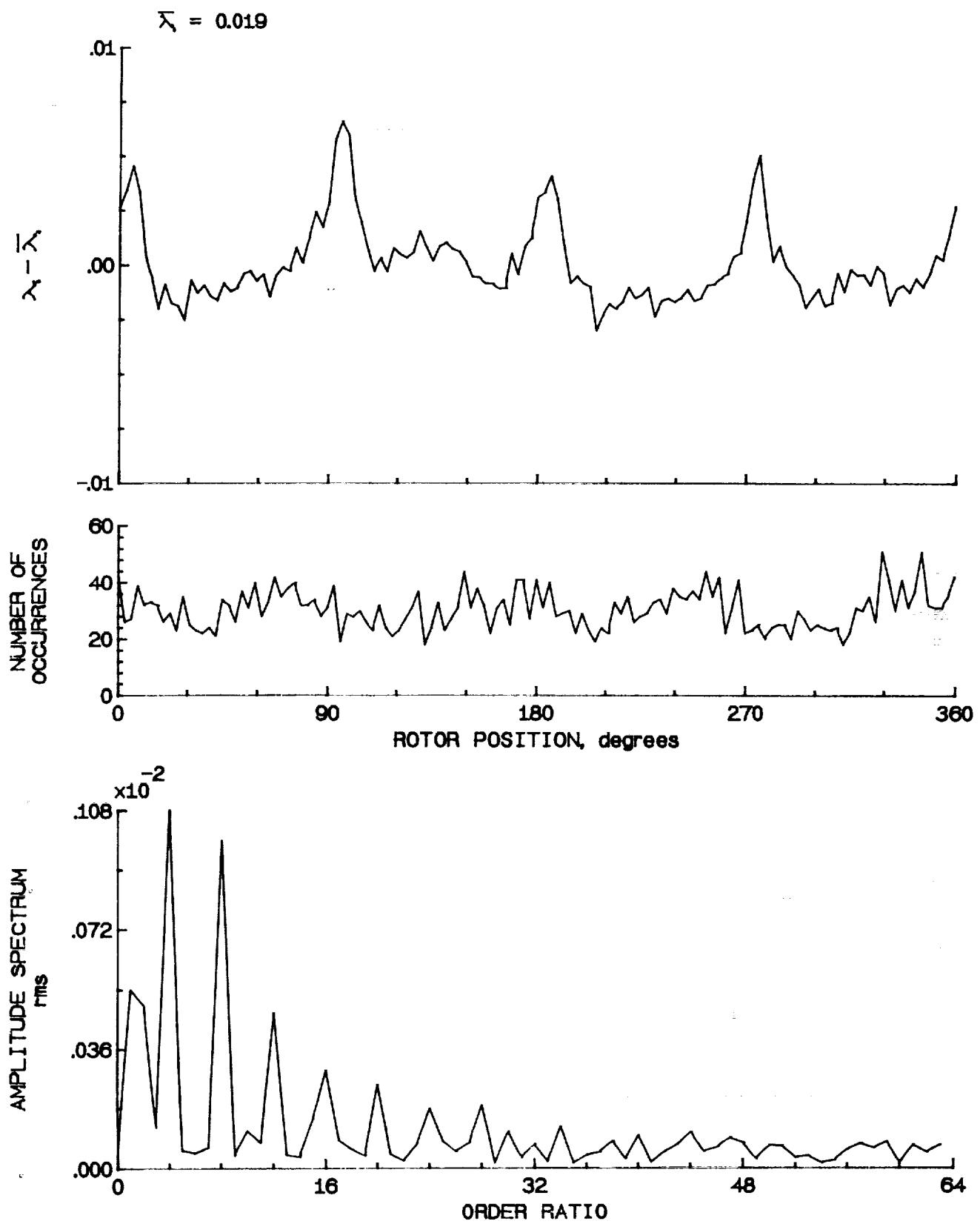


Figure 67.- Concluded.

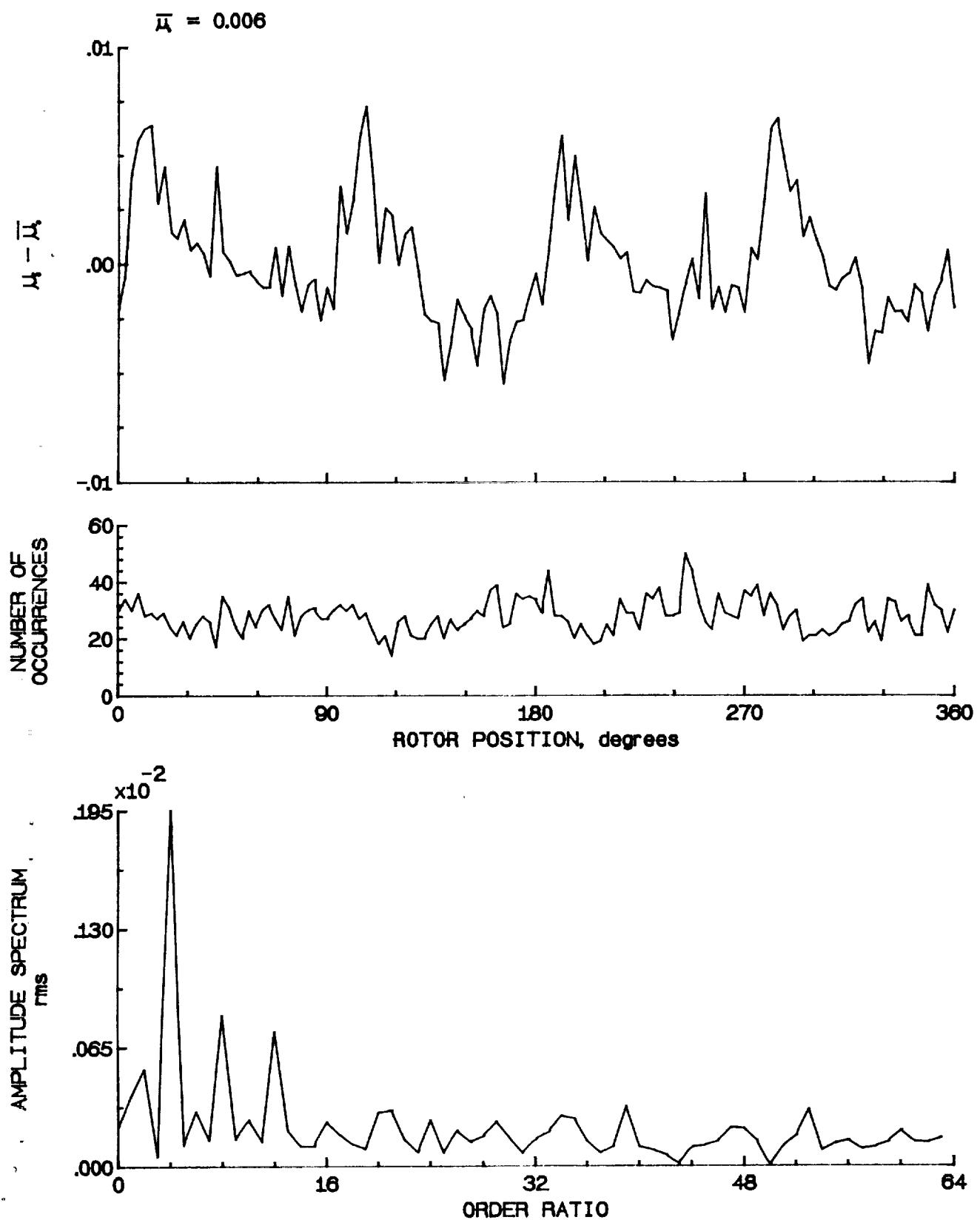


Figure 68.- Induced inflow velocity measured at 90 degrees and r/R of 0.73.

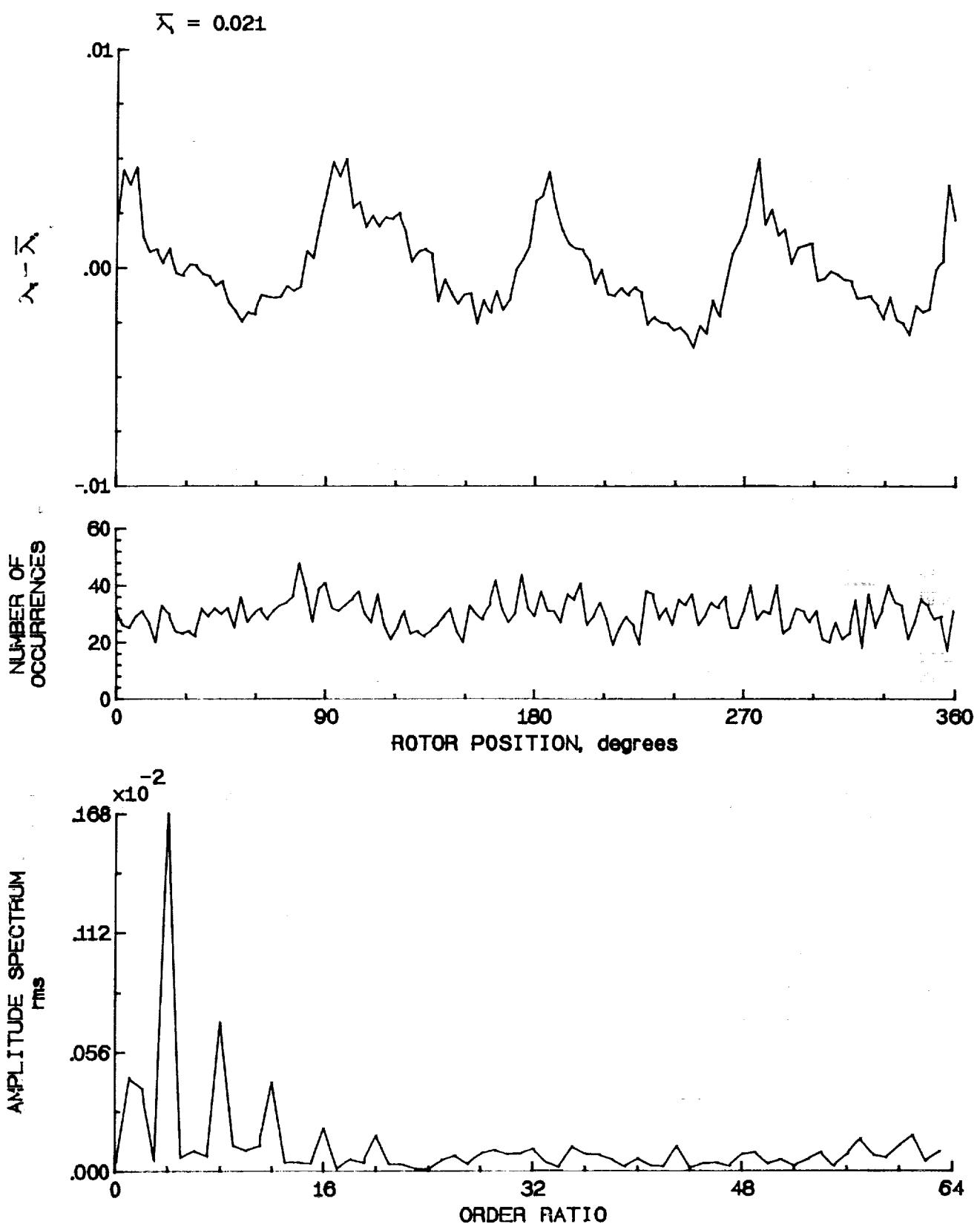


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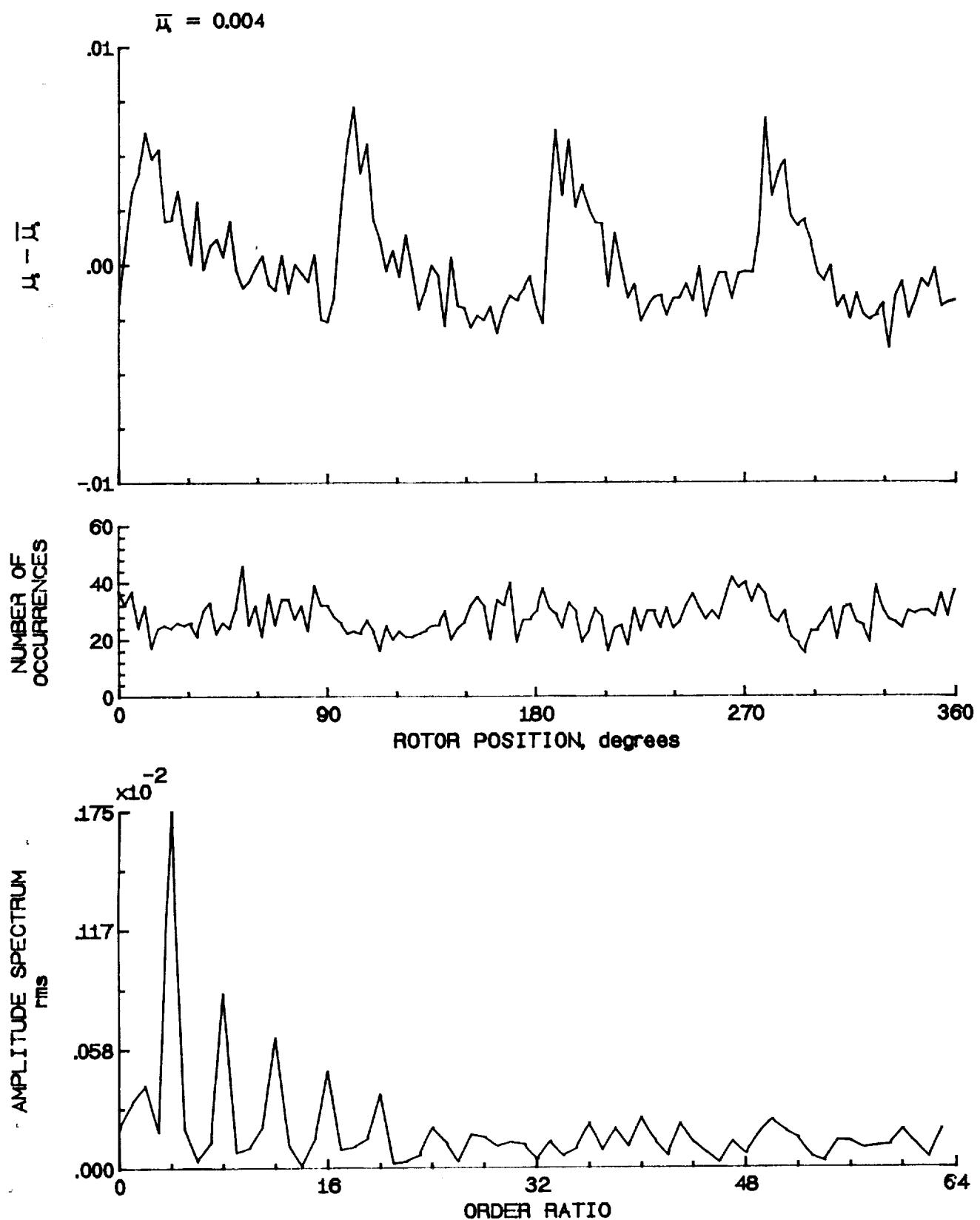


Figure 69.- Induced inflow velocity measured at 90 degrees and r/R of 0.75.

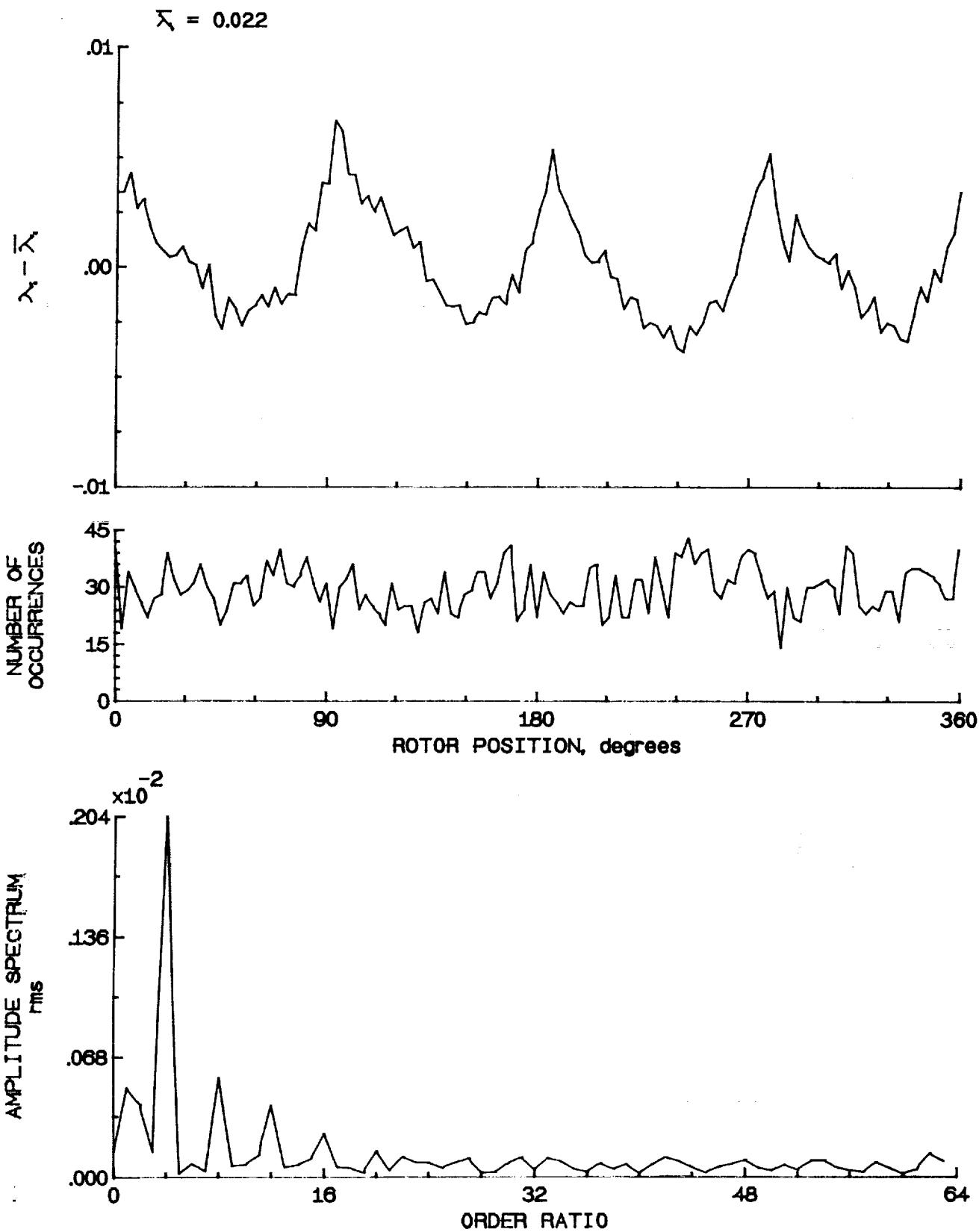


Figure 69.- Concluded.

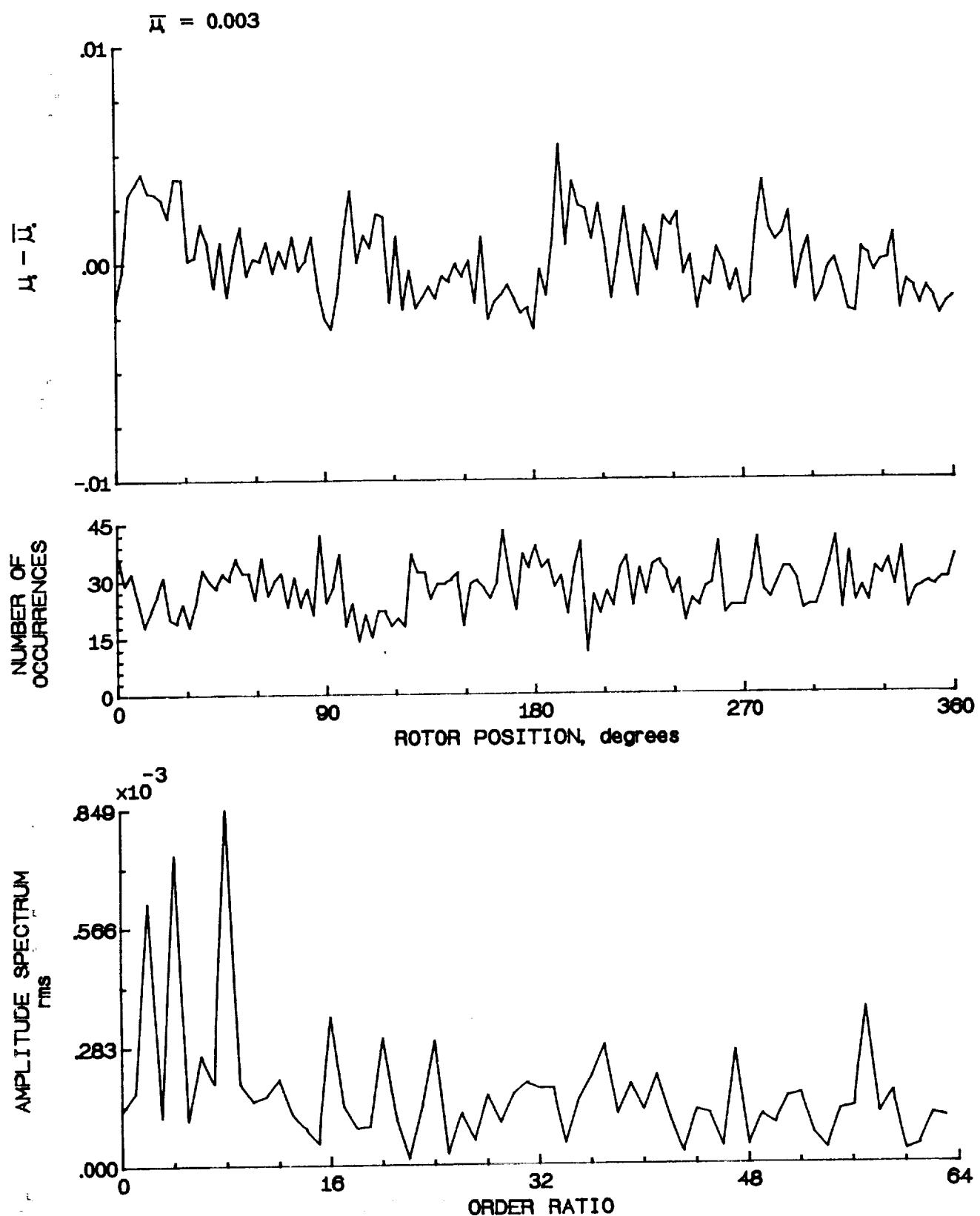


Figure 70.- Induced inflow velocity measured at 90 degrees and r/R of 0.81

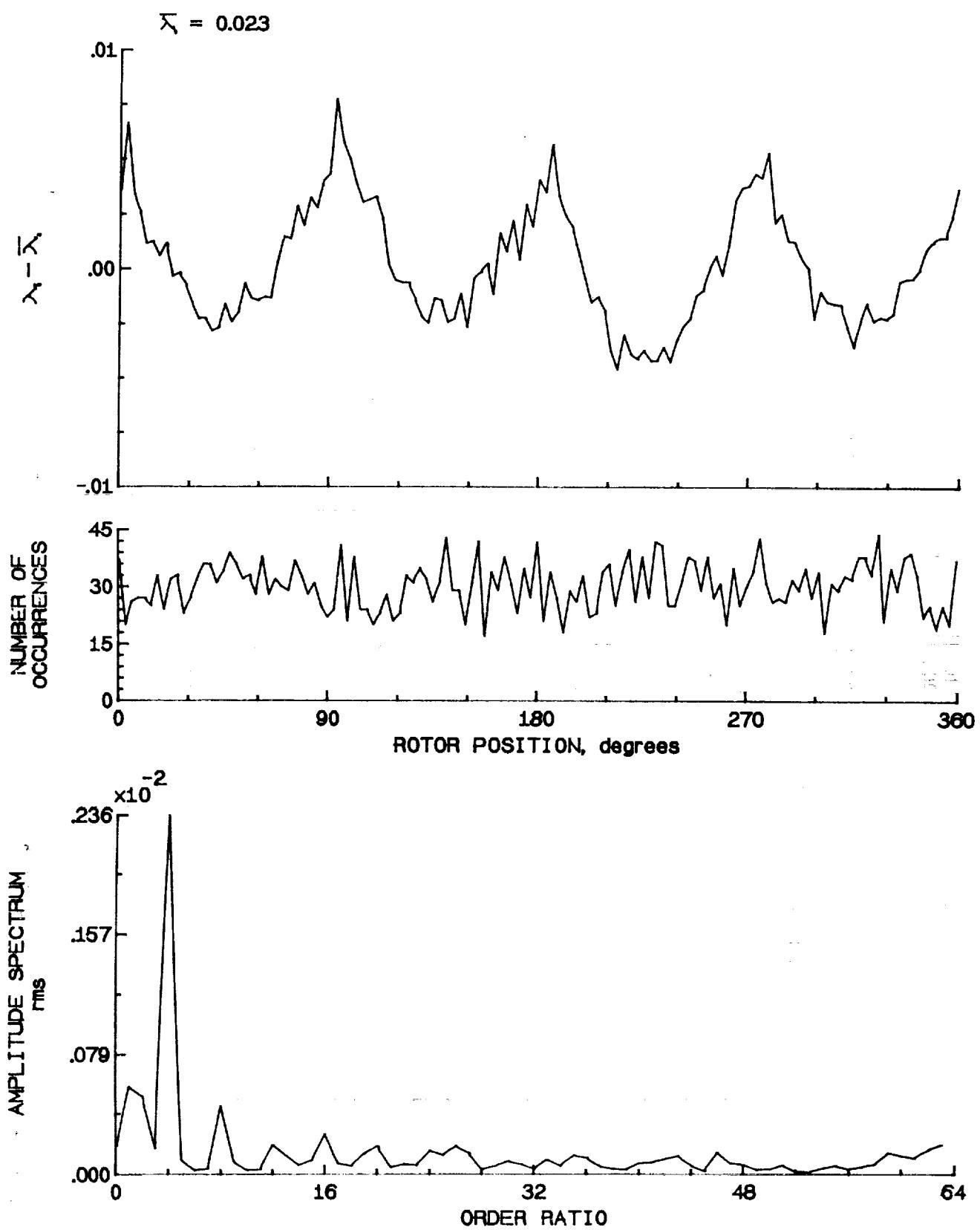


Figure 70.- Concluded.

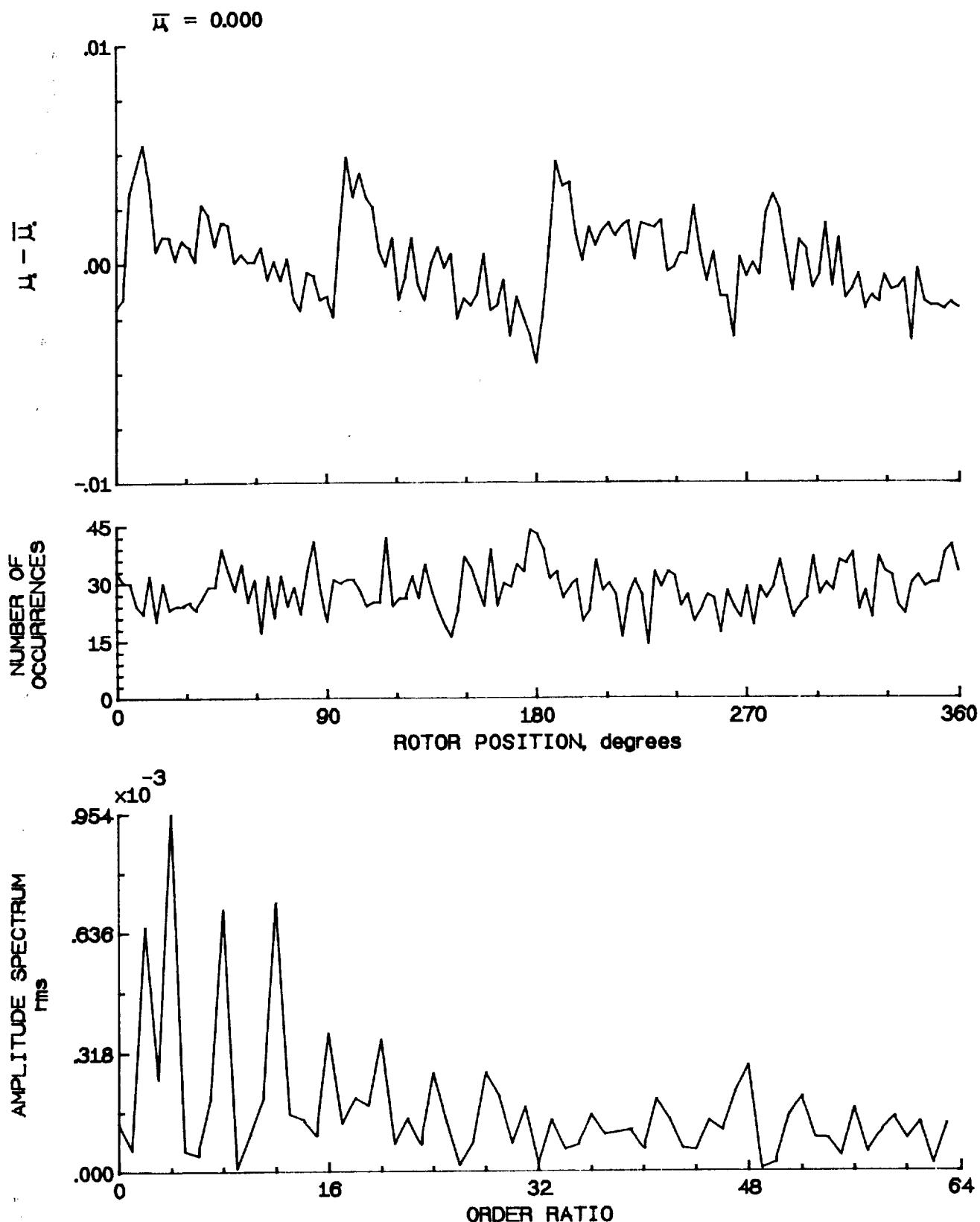


Figure 71.- Induced inflow velocity measured at 90 degrees and r/R of 0.86.

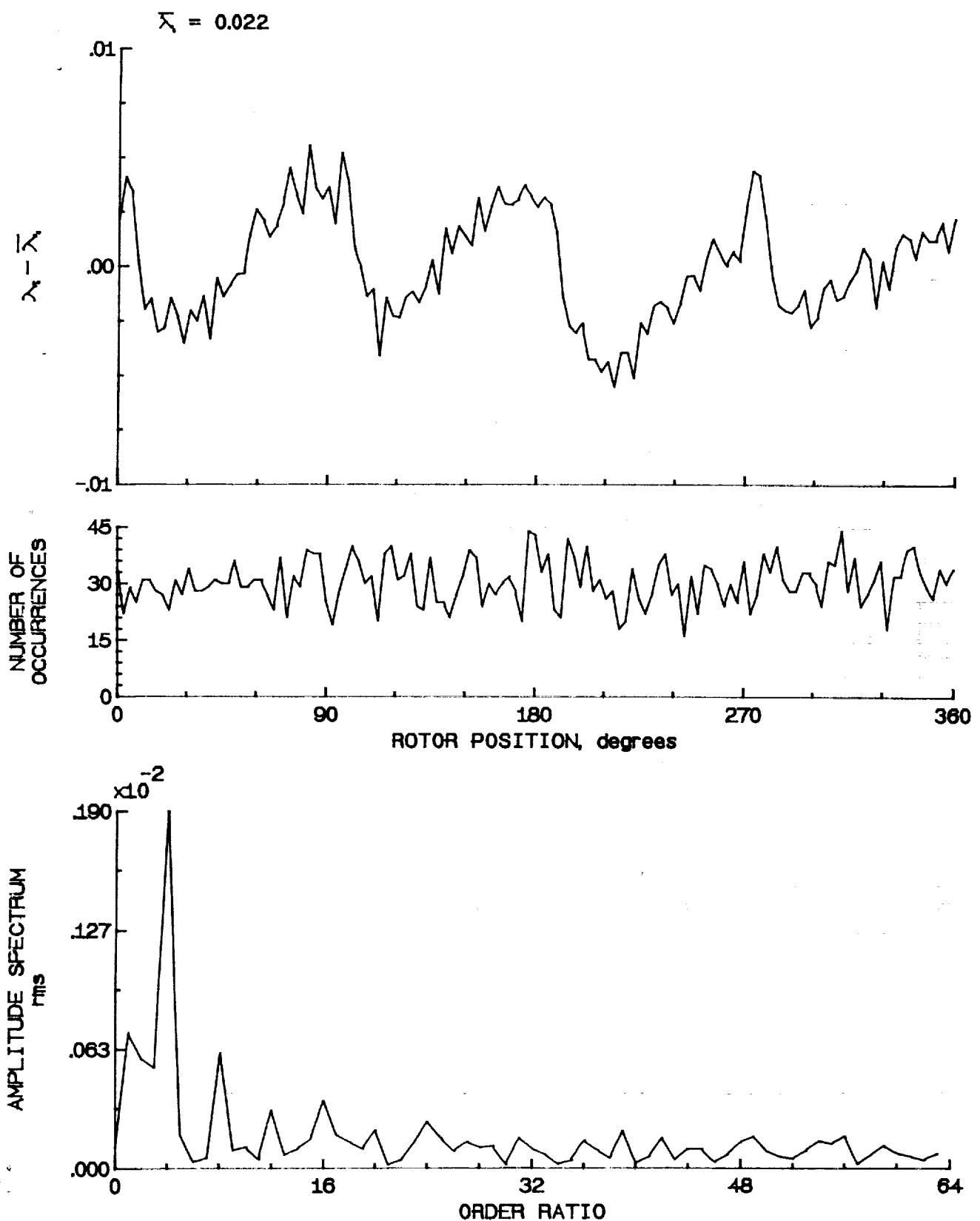


Figure 71- Concluded.

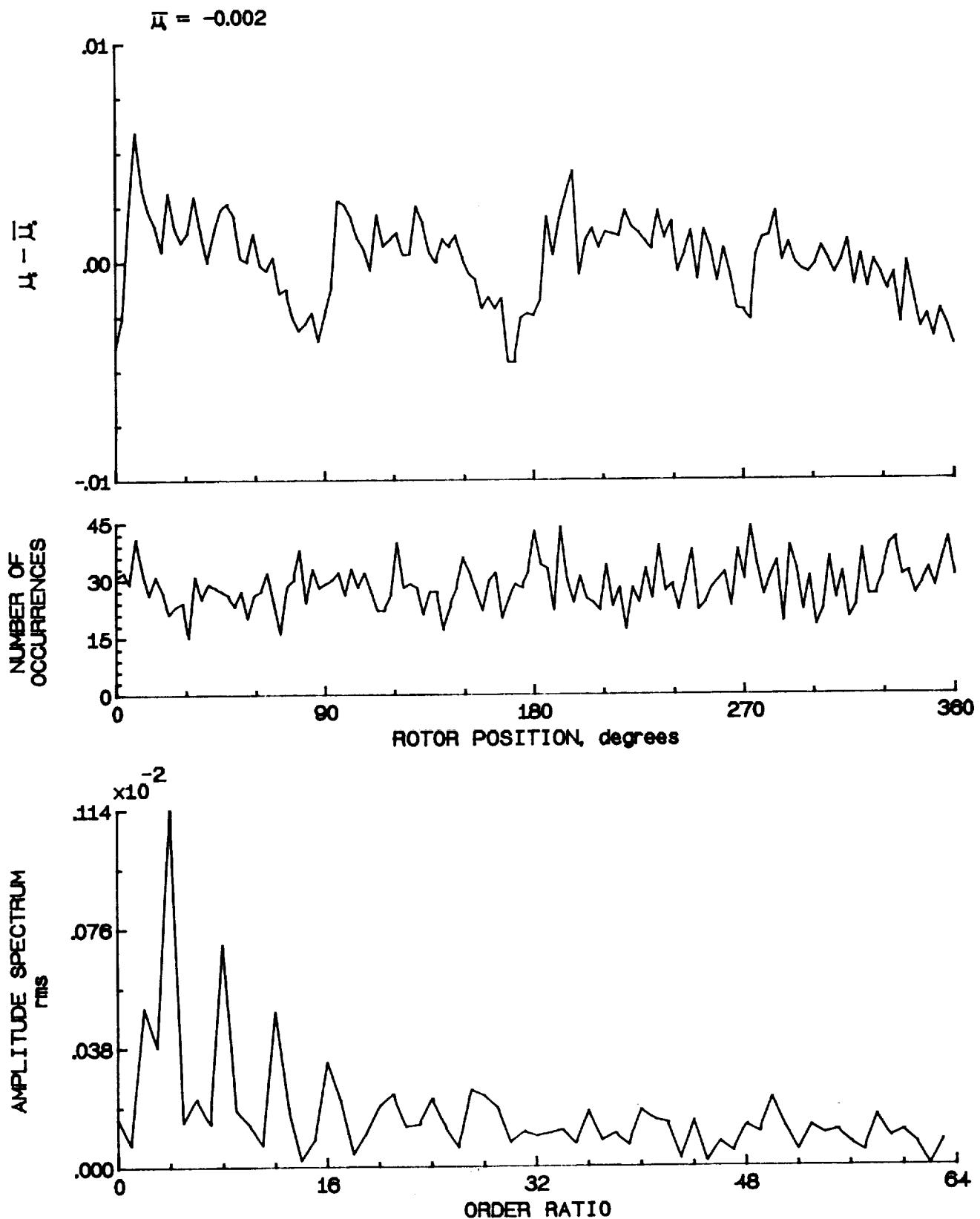


Figure 72.- Induced inflow velocity measured at 90 degrees and r/R of 0.90.

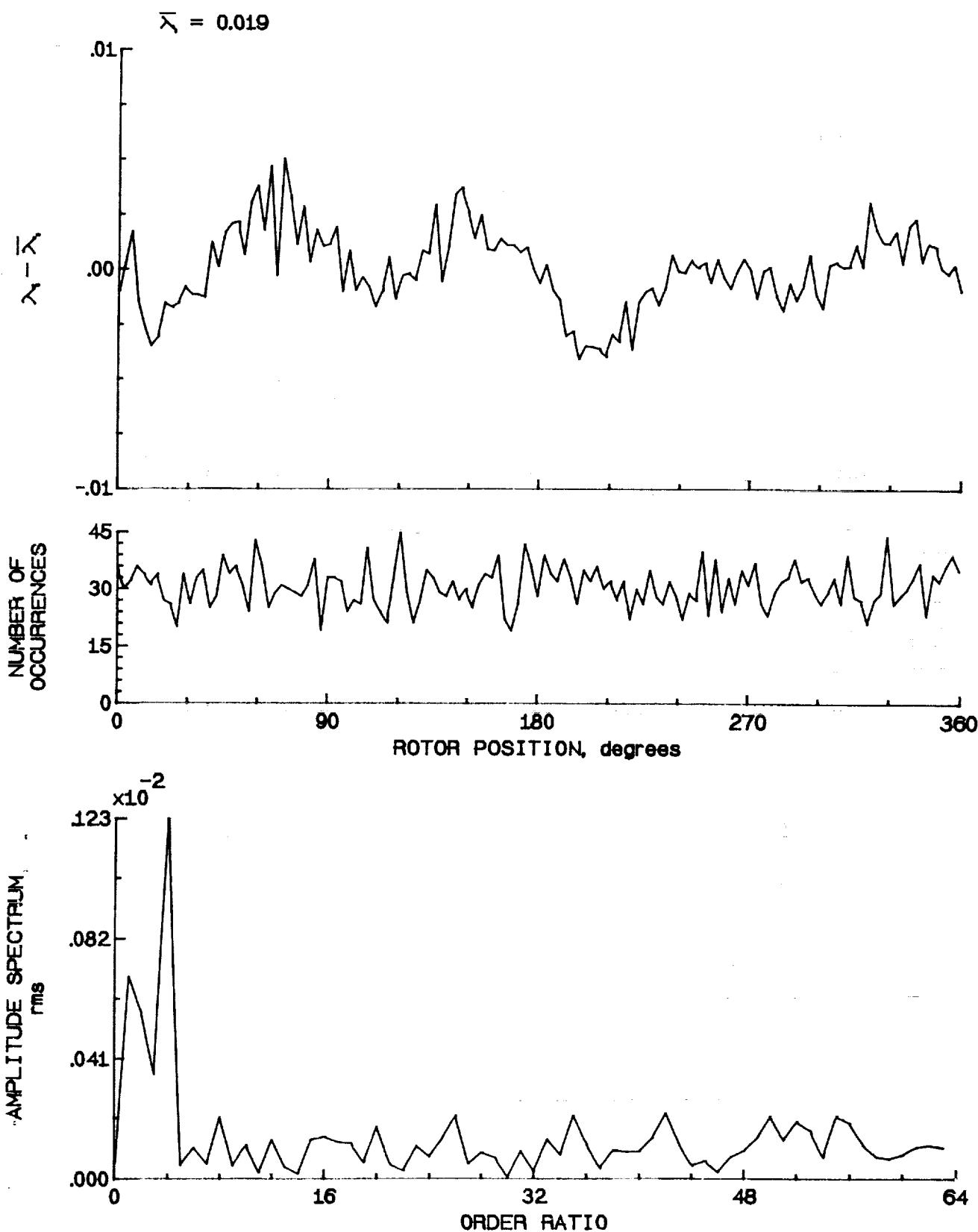


Figure 72.- Concluded.

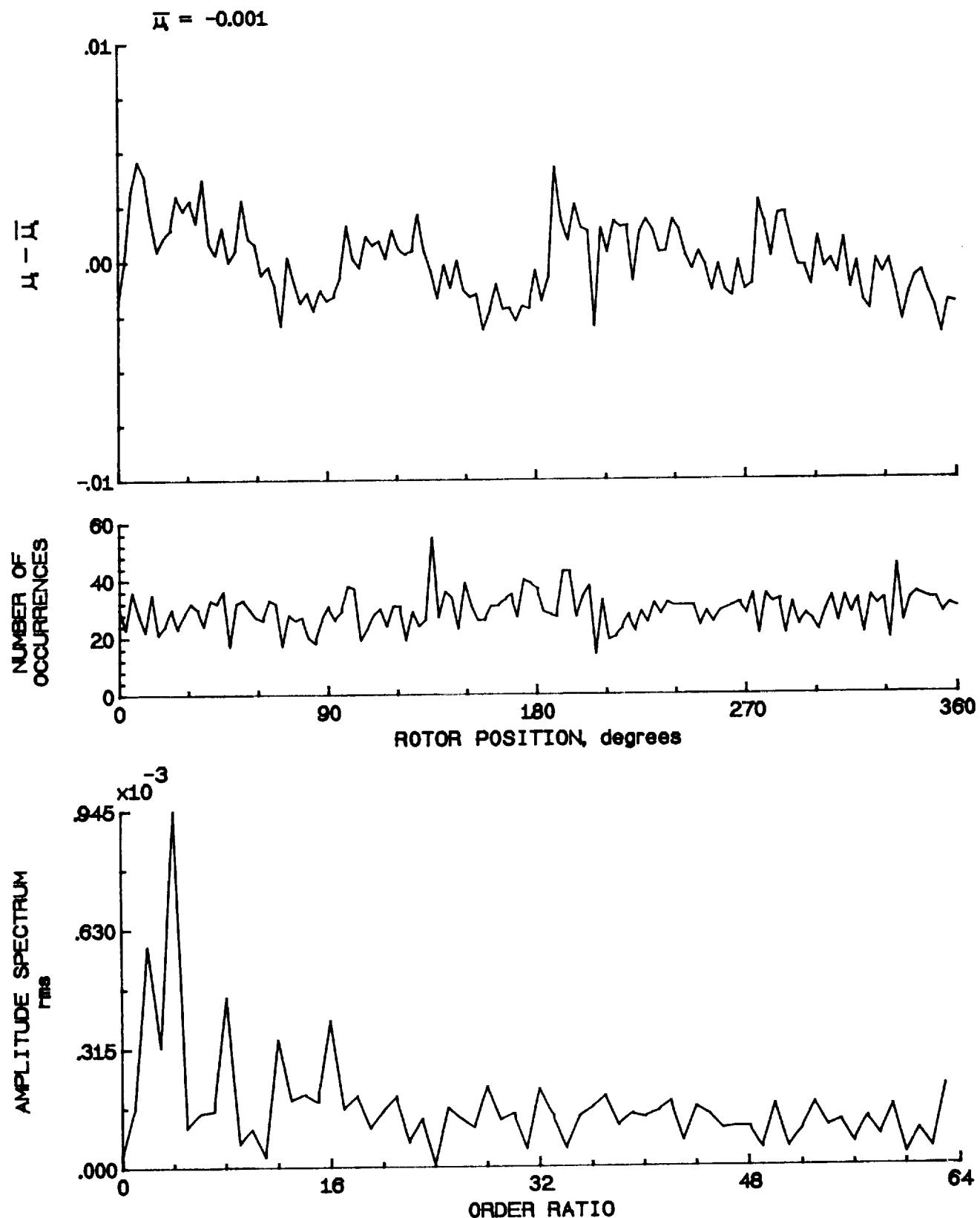


Figure 73.- Induced inflow velocity measured at 90 degrees and r/R of 0.96.

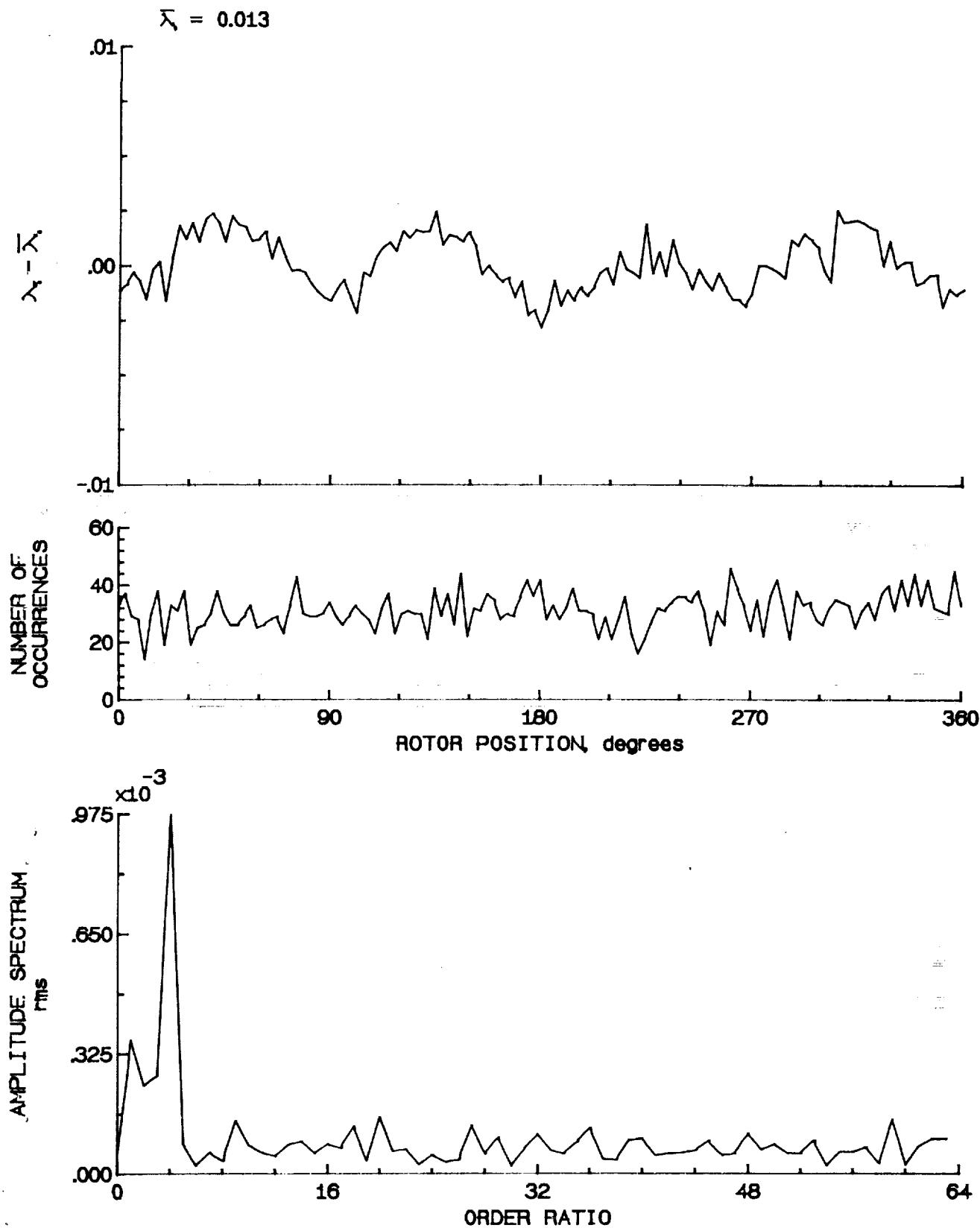


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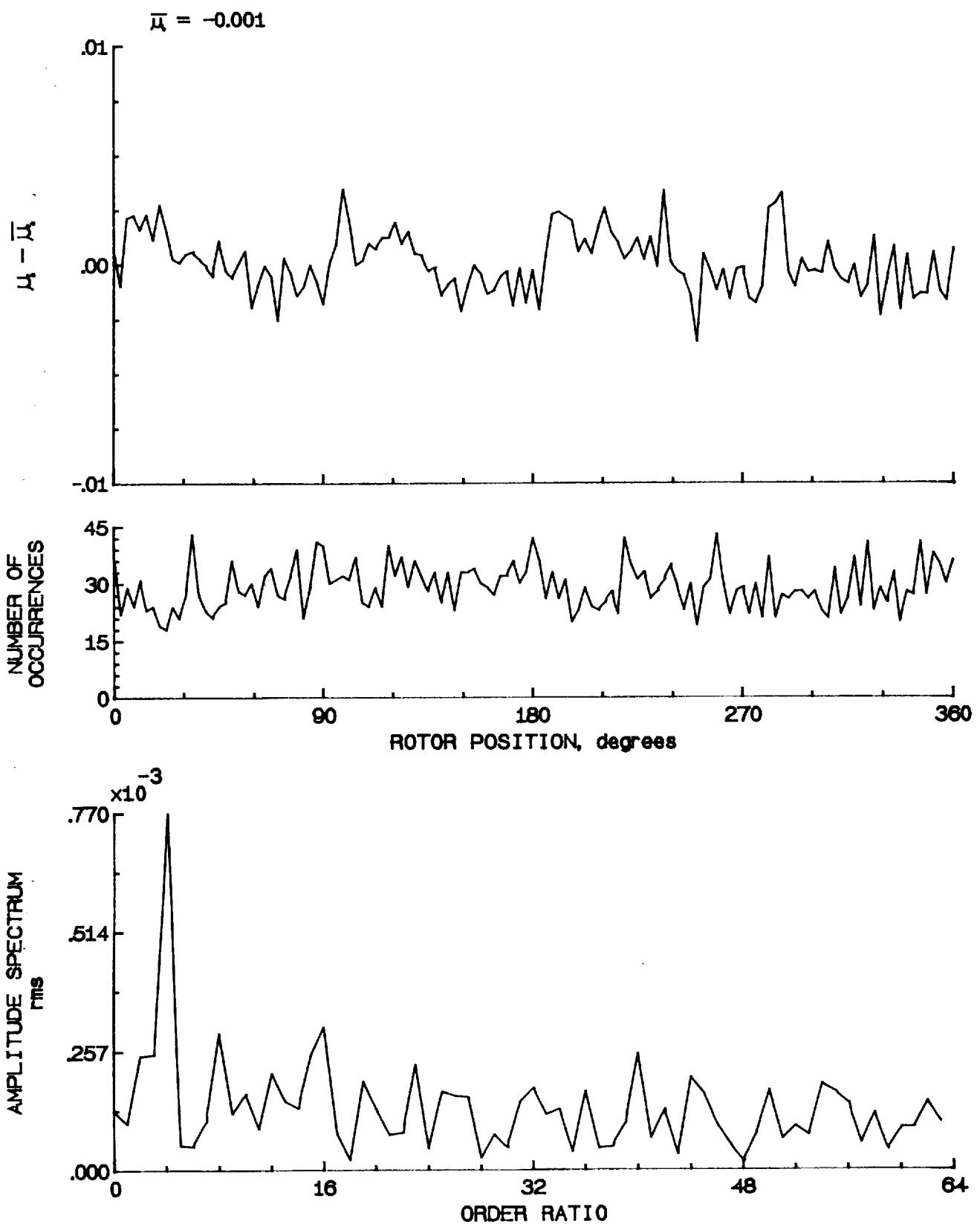


Figure 74.- Induced inflow velocity measured at 90 degrees and r/R of 1.00.

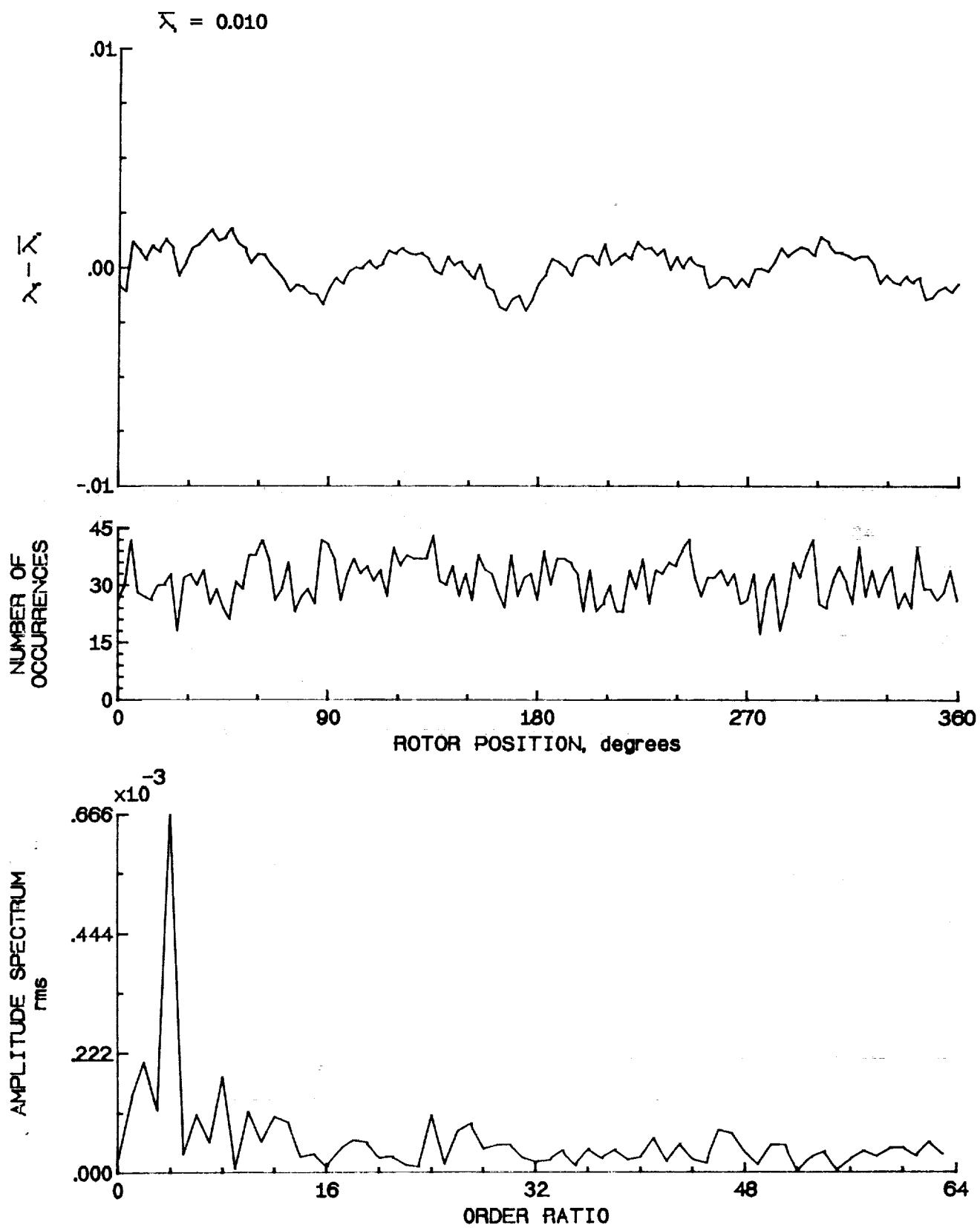


Figure 74.- Concluded.

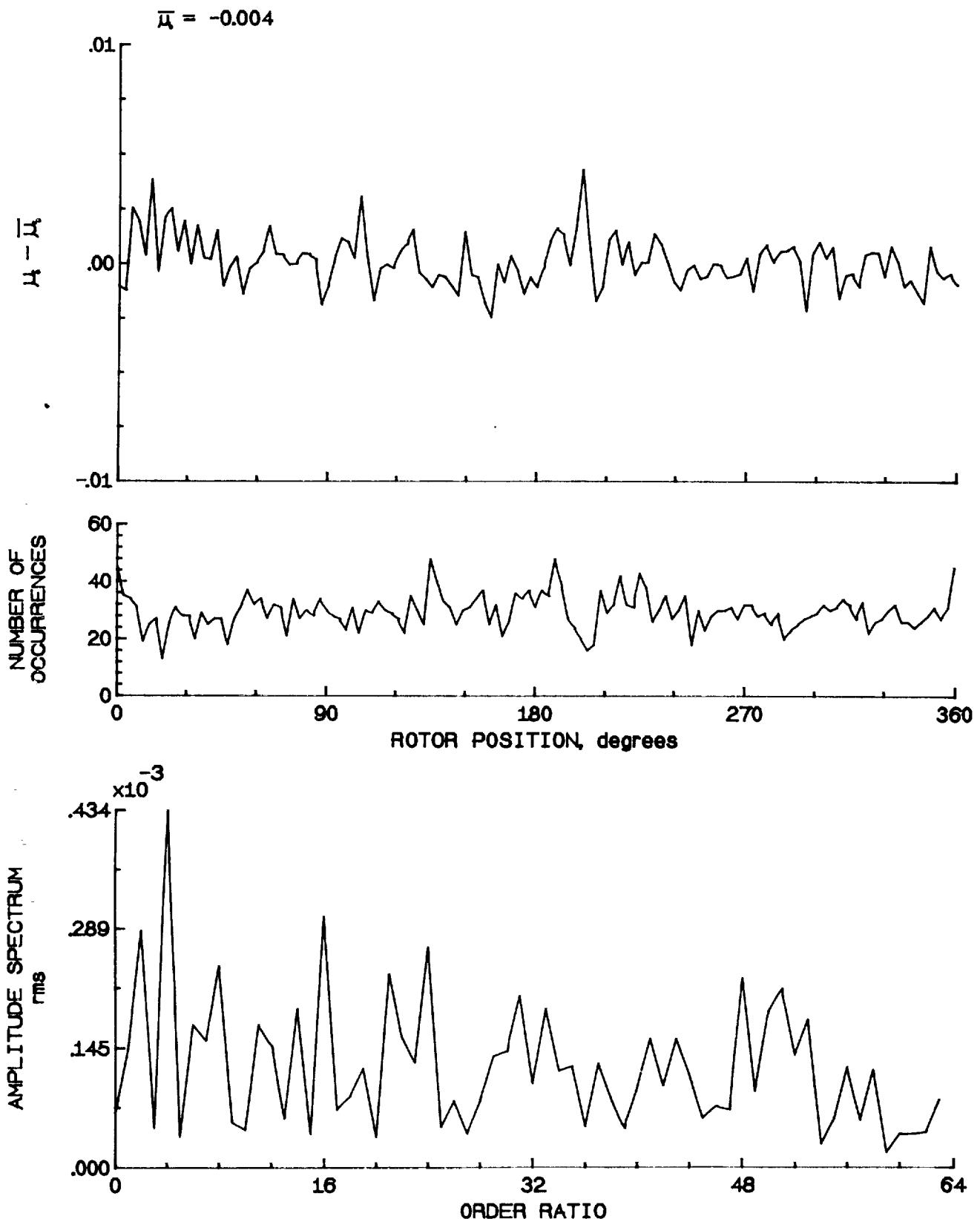


Figure 75.- Induced inflow velocity measured at 90 degrees and r/R of 1.10.

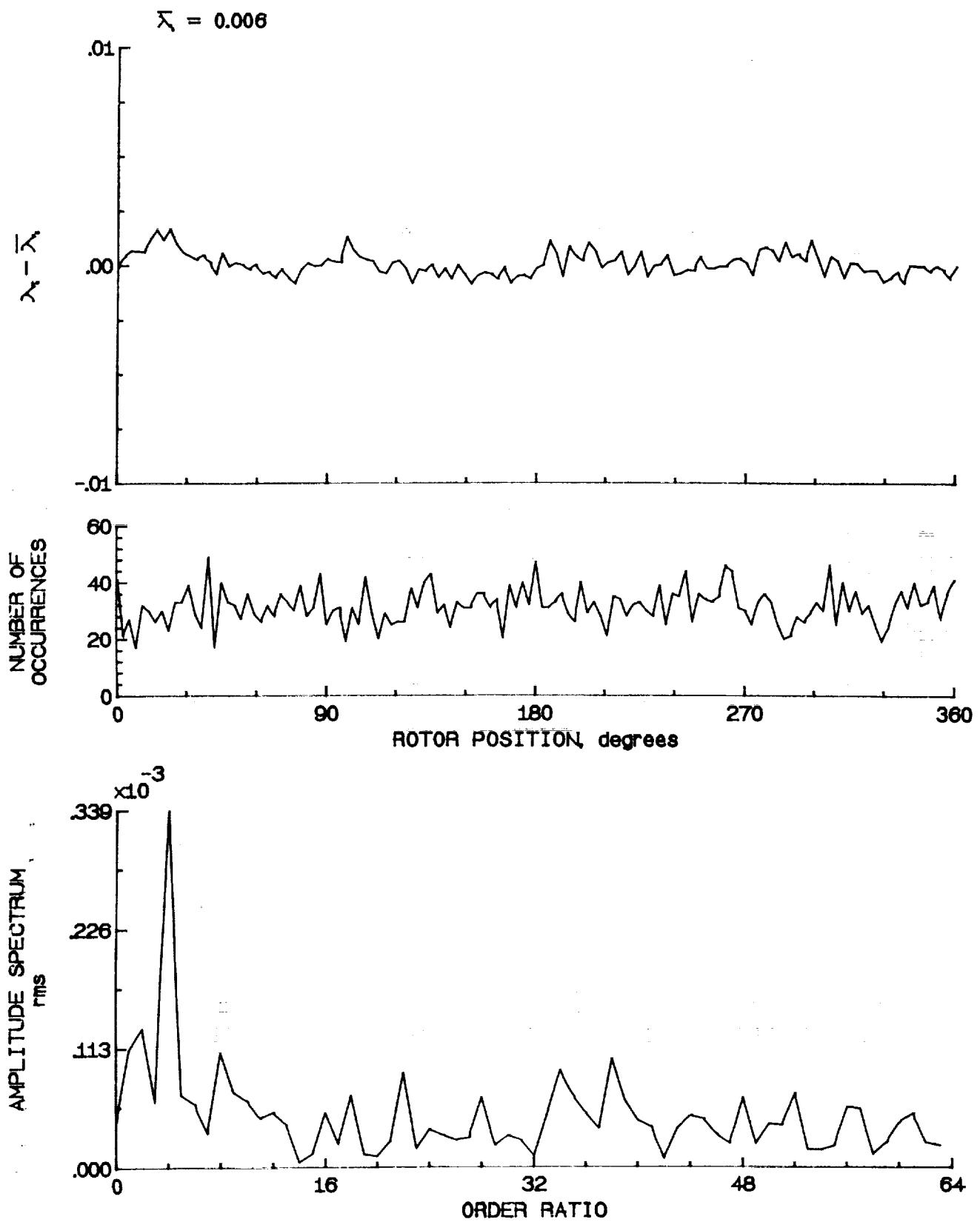


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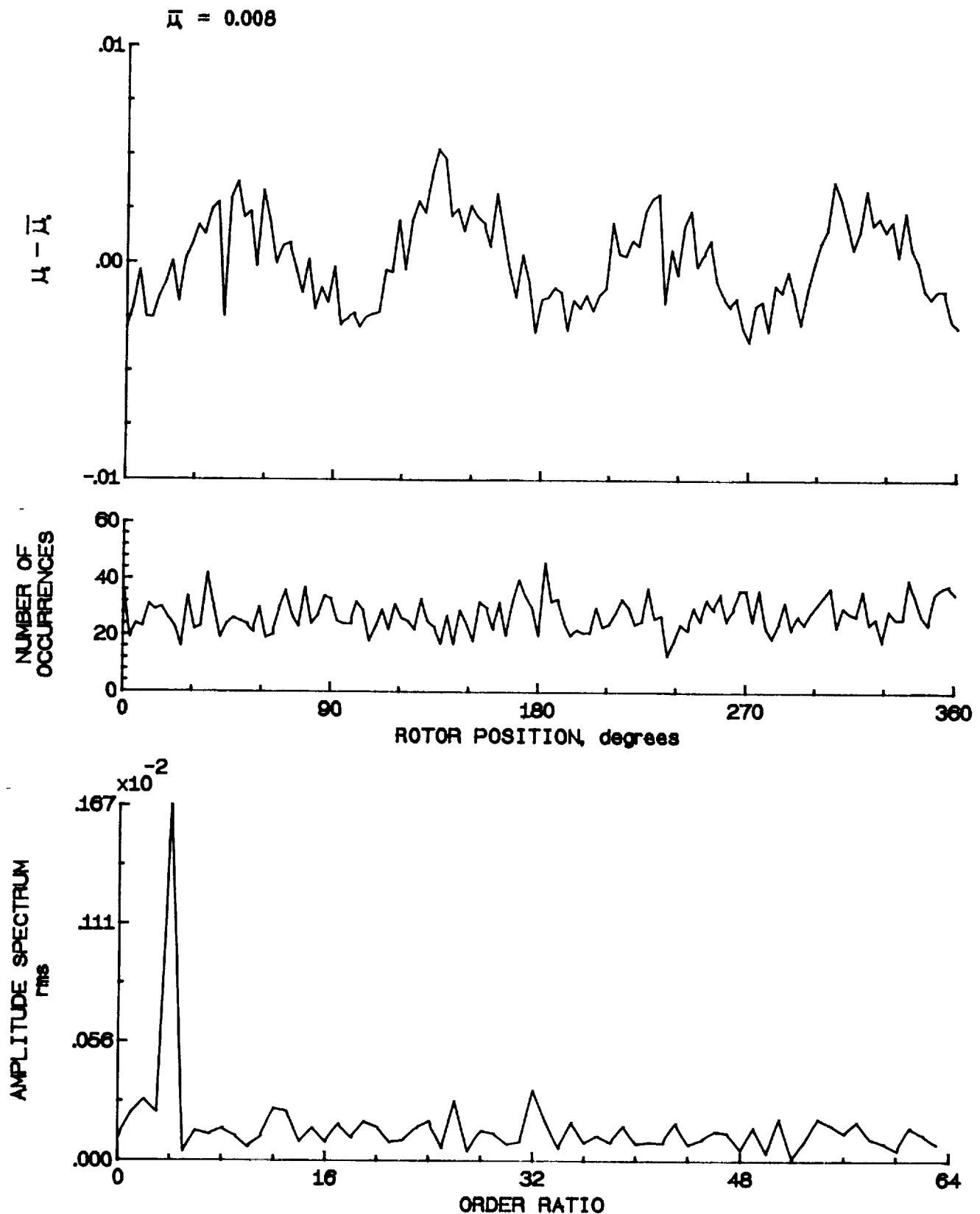


Figure 76.- Induced inflow velocity measured at 120 degrees and r/R of 0.20.

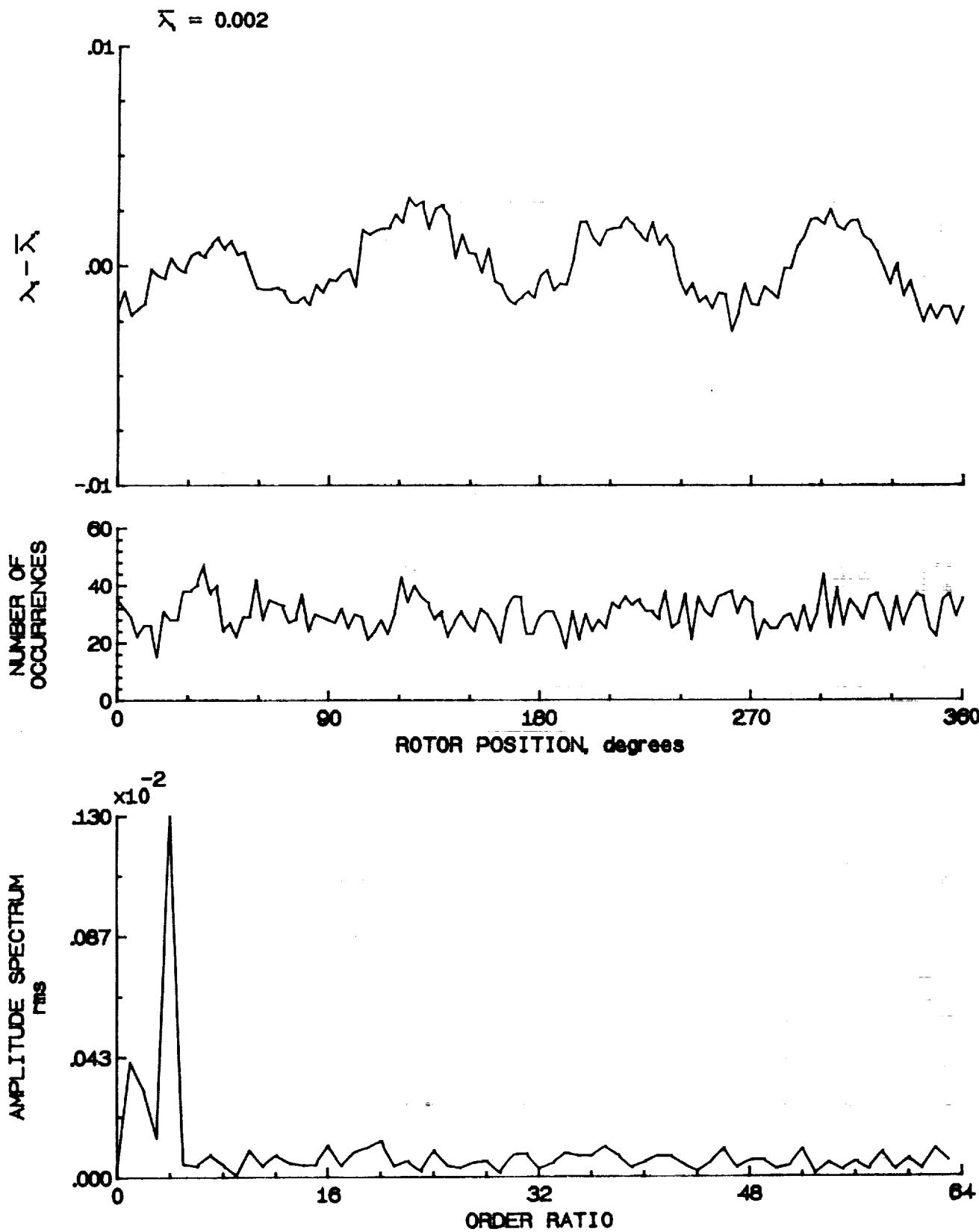


Figure 76.- Concluded.

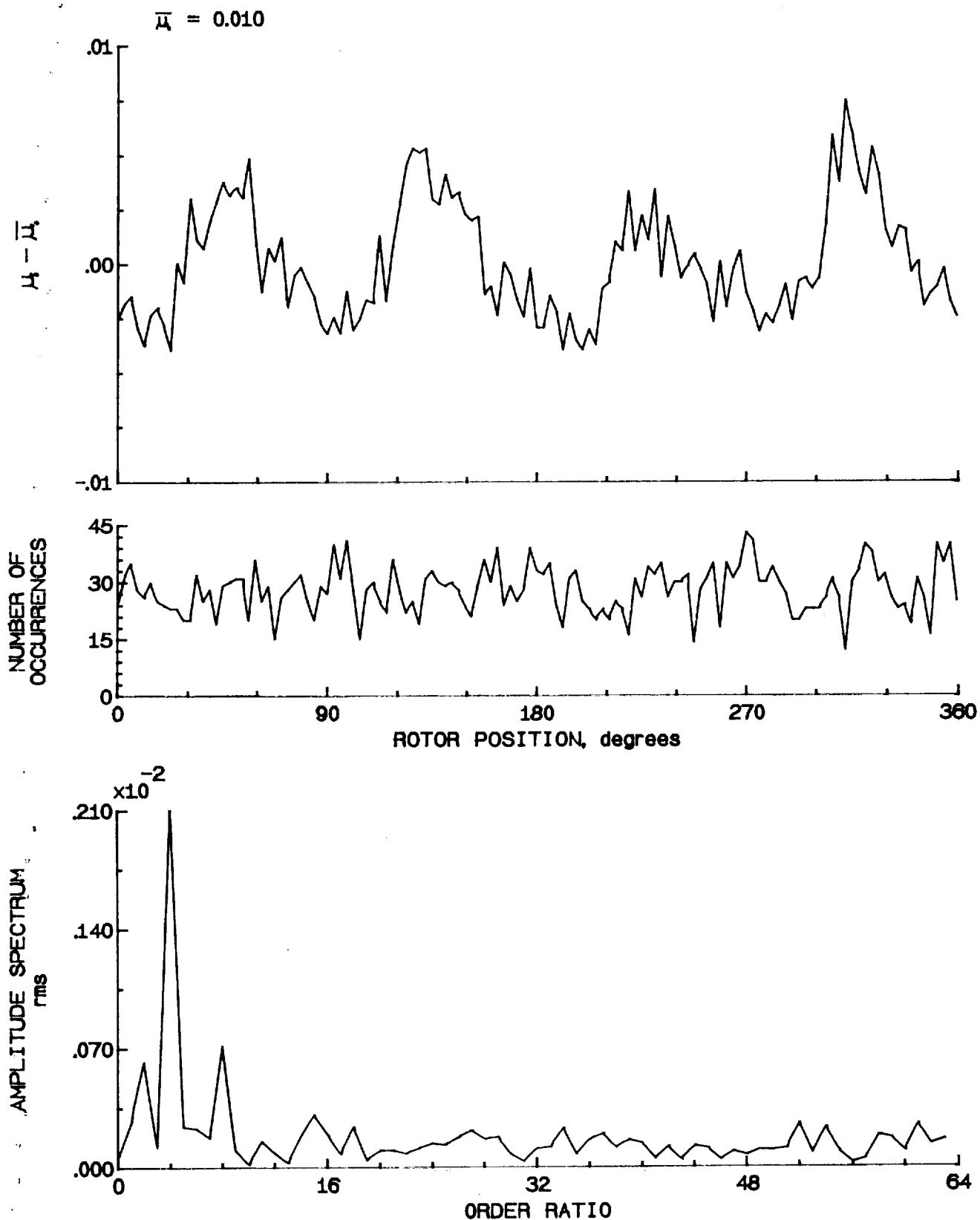


Figure 77.- Induced inflow velocity measured at 120 degrees and r/R of 0.32.

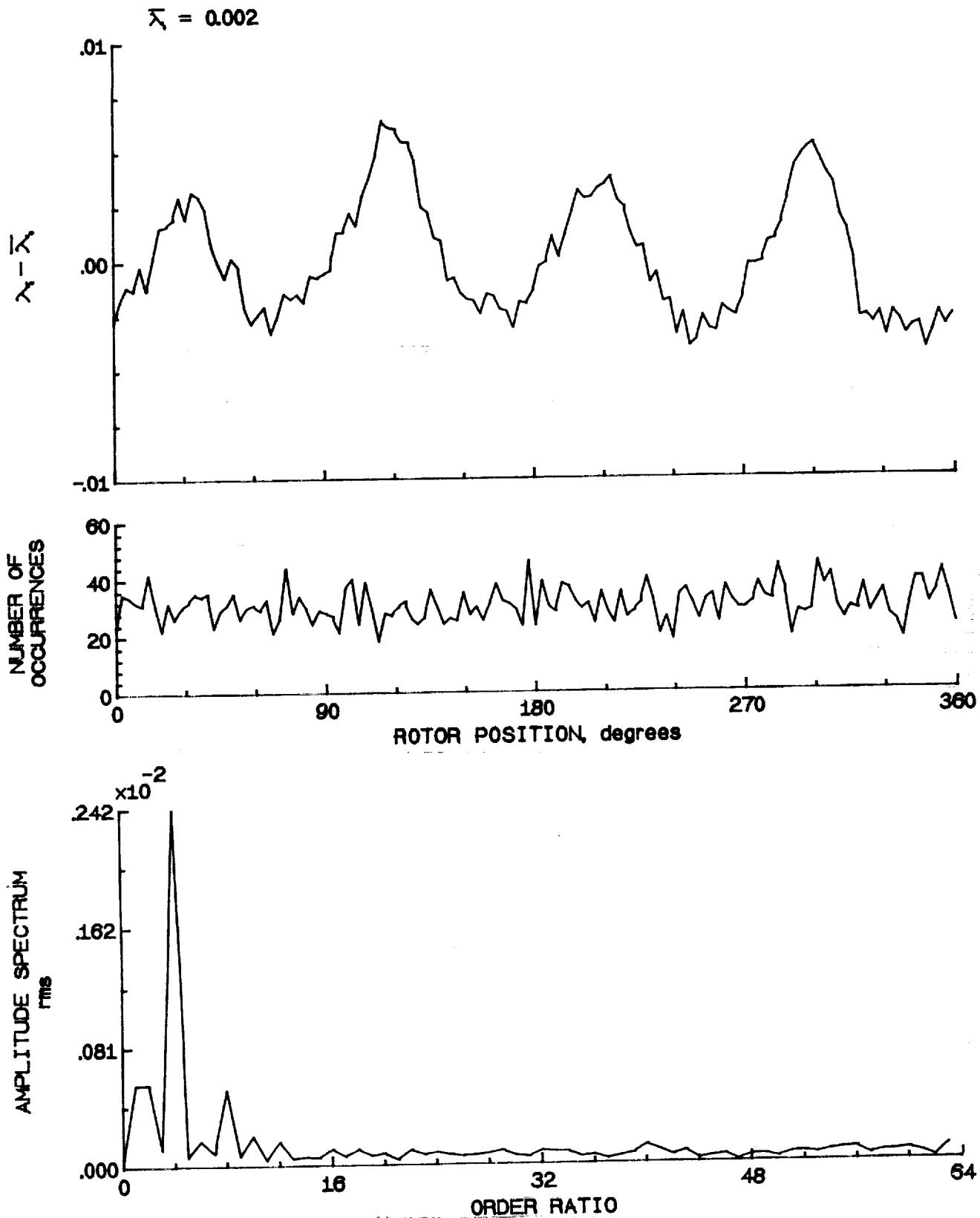


Figure 77.- Concluded.

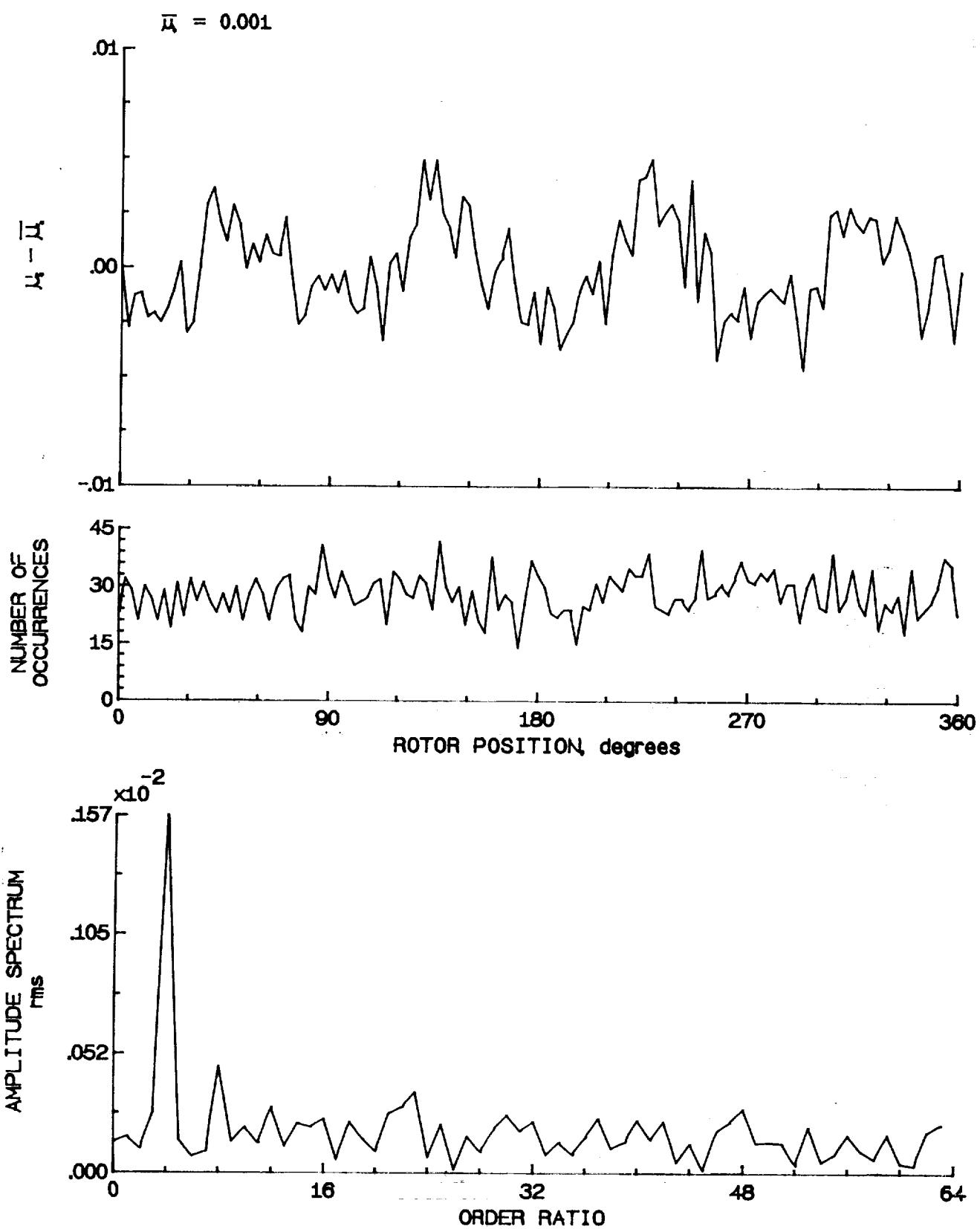


Figure 78.- Induced inflow velocity measured at 120 degrees and r/R of 0.50.

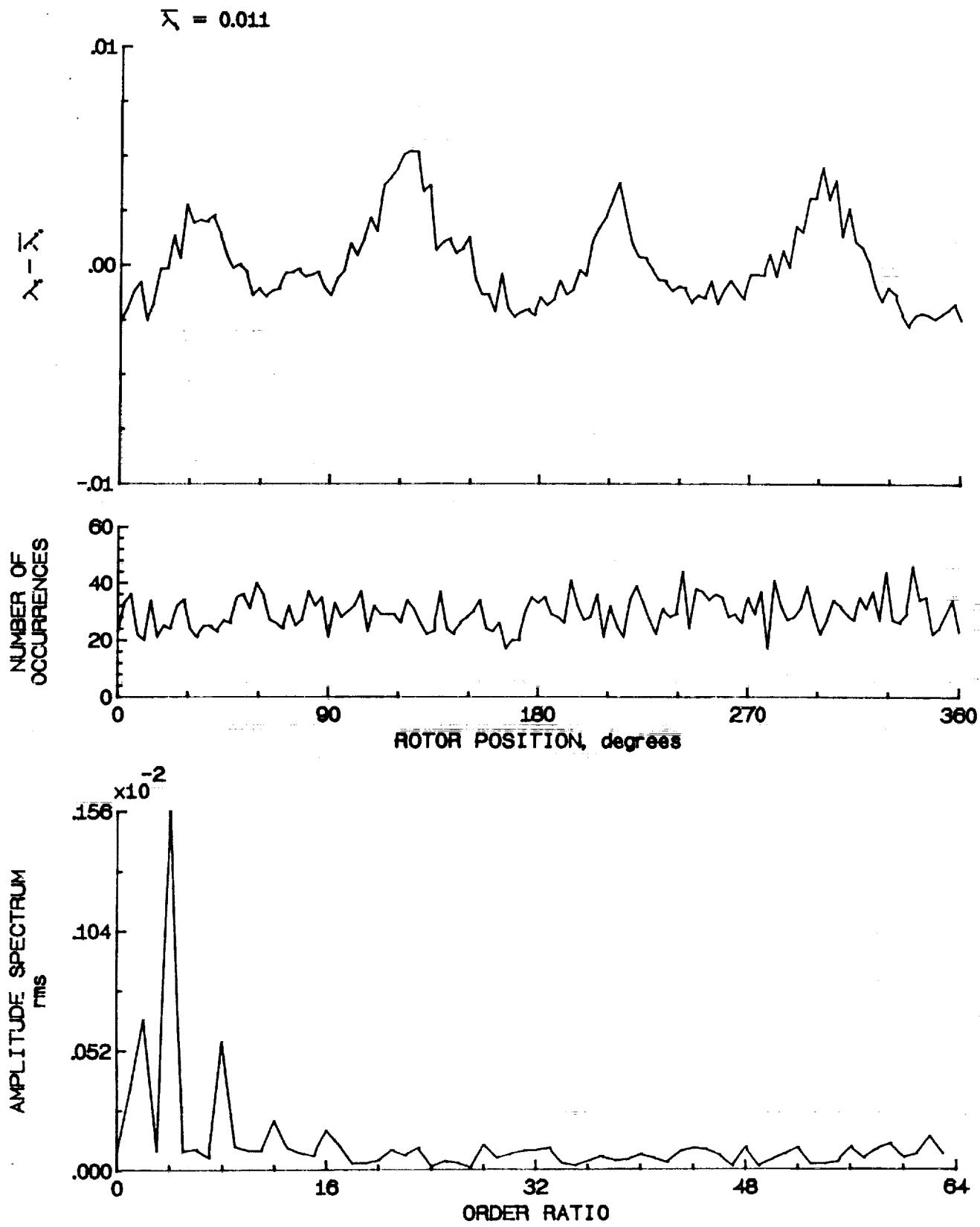


Figure 78.- Concluded.

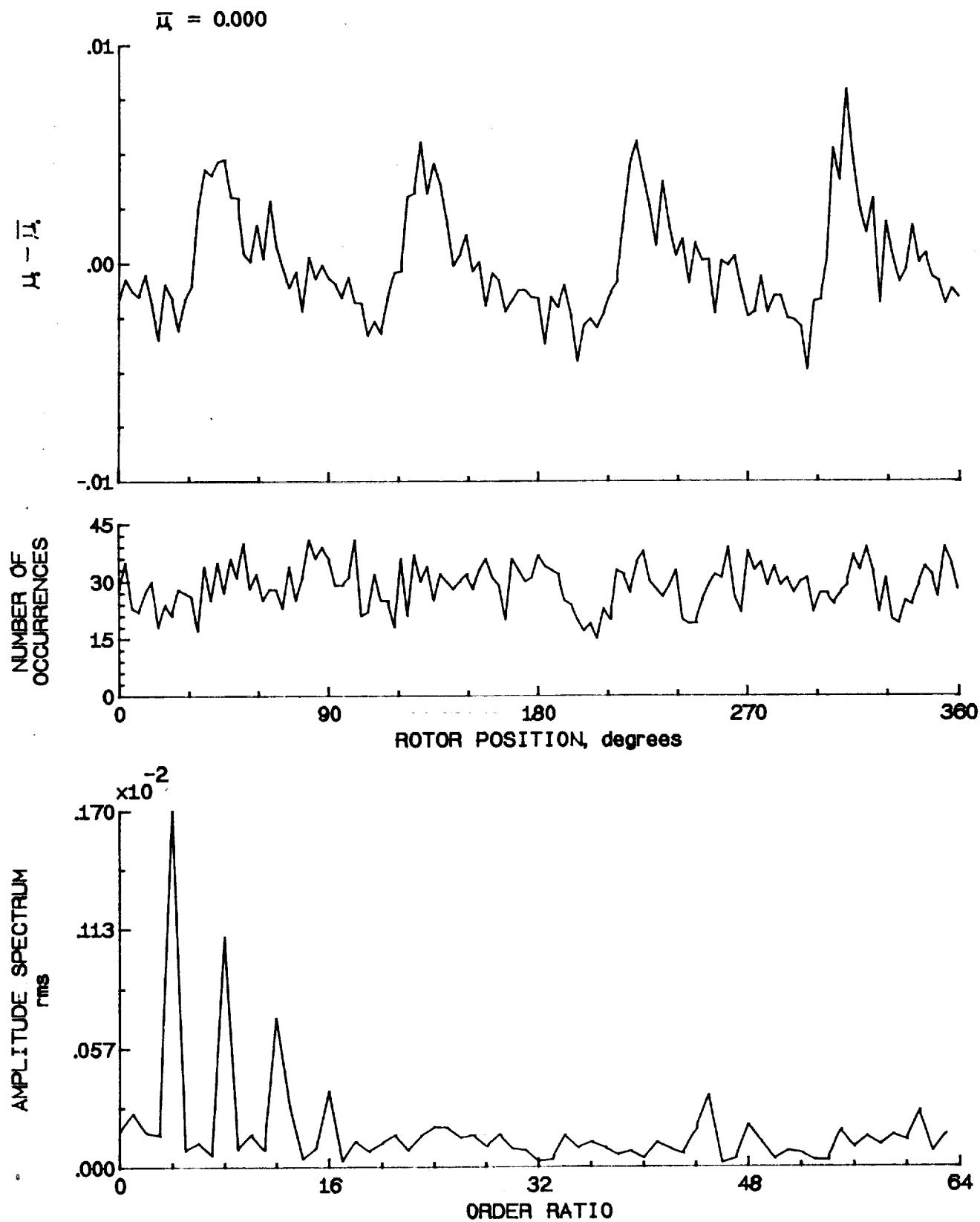


Figure 79.- Induced inflow velocity measured at 120 degrees and r/R of 0.58.

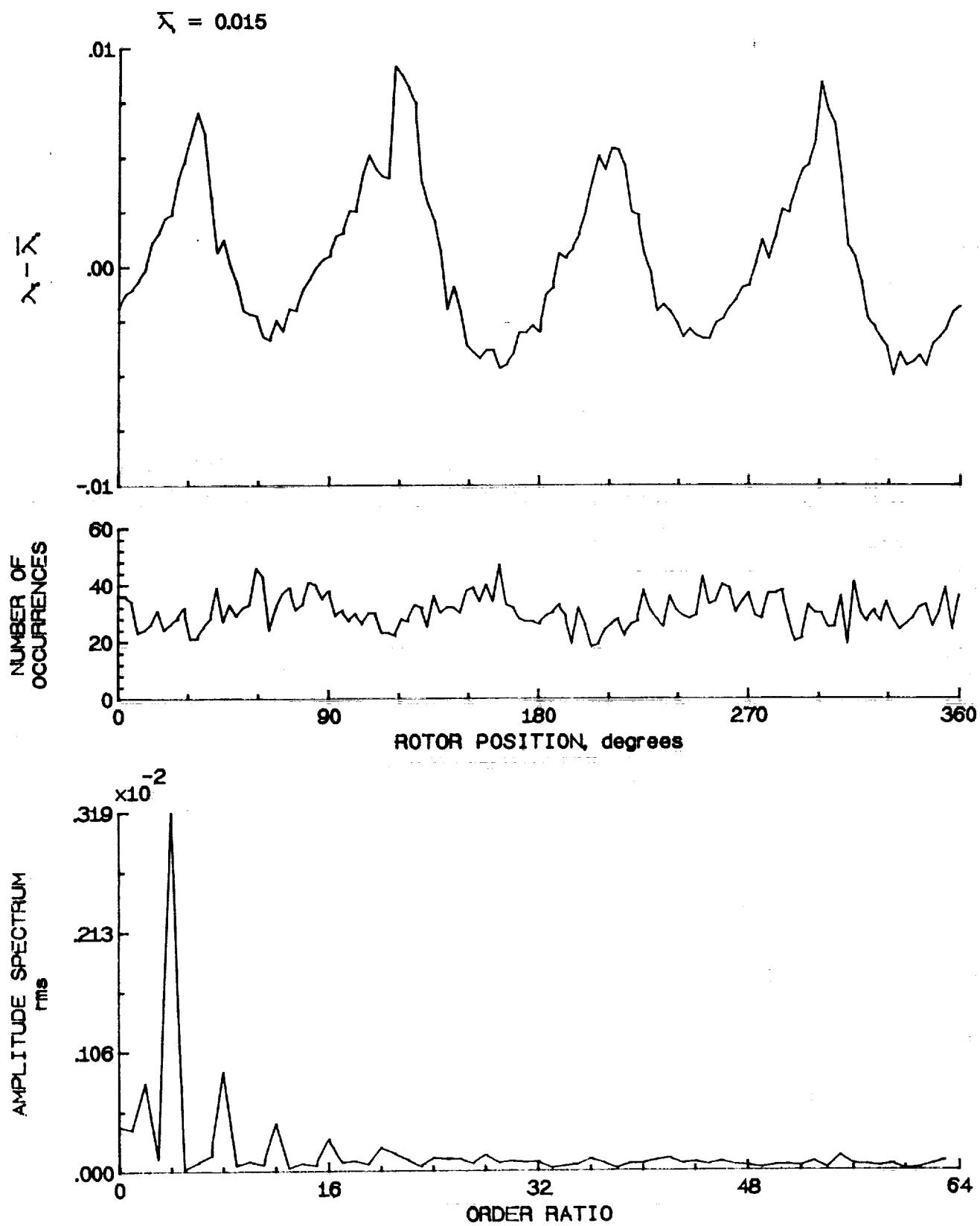


Figure 79.- Concluded.

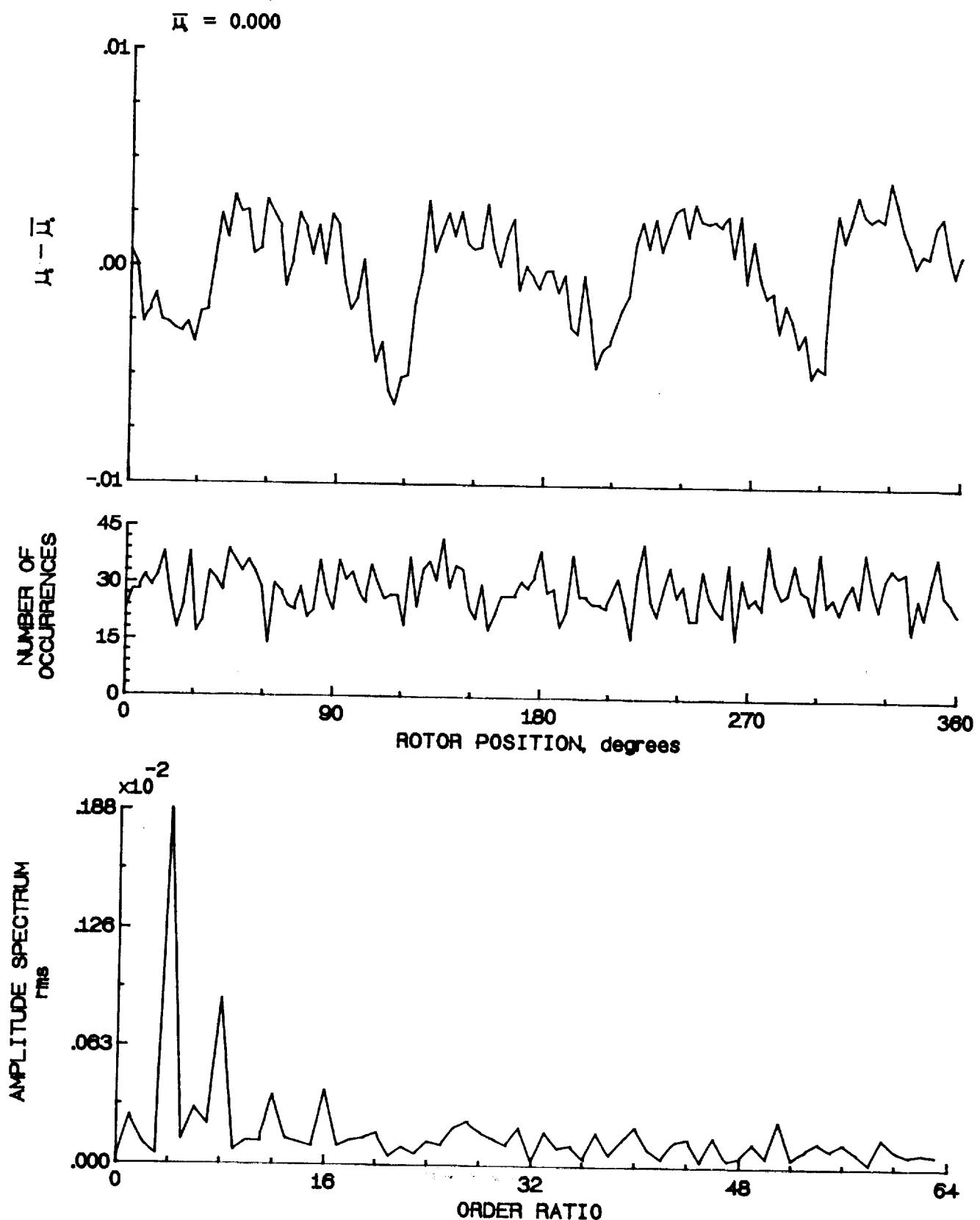


Figure 80.- Induced inflow velocity measured at 120 degrees and r/R of 0.69.

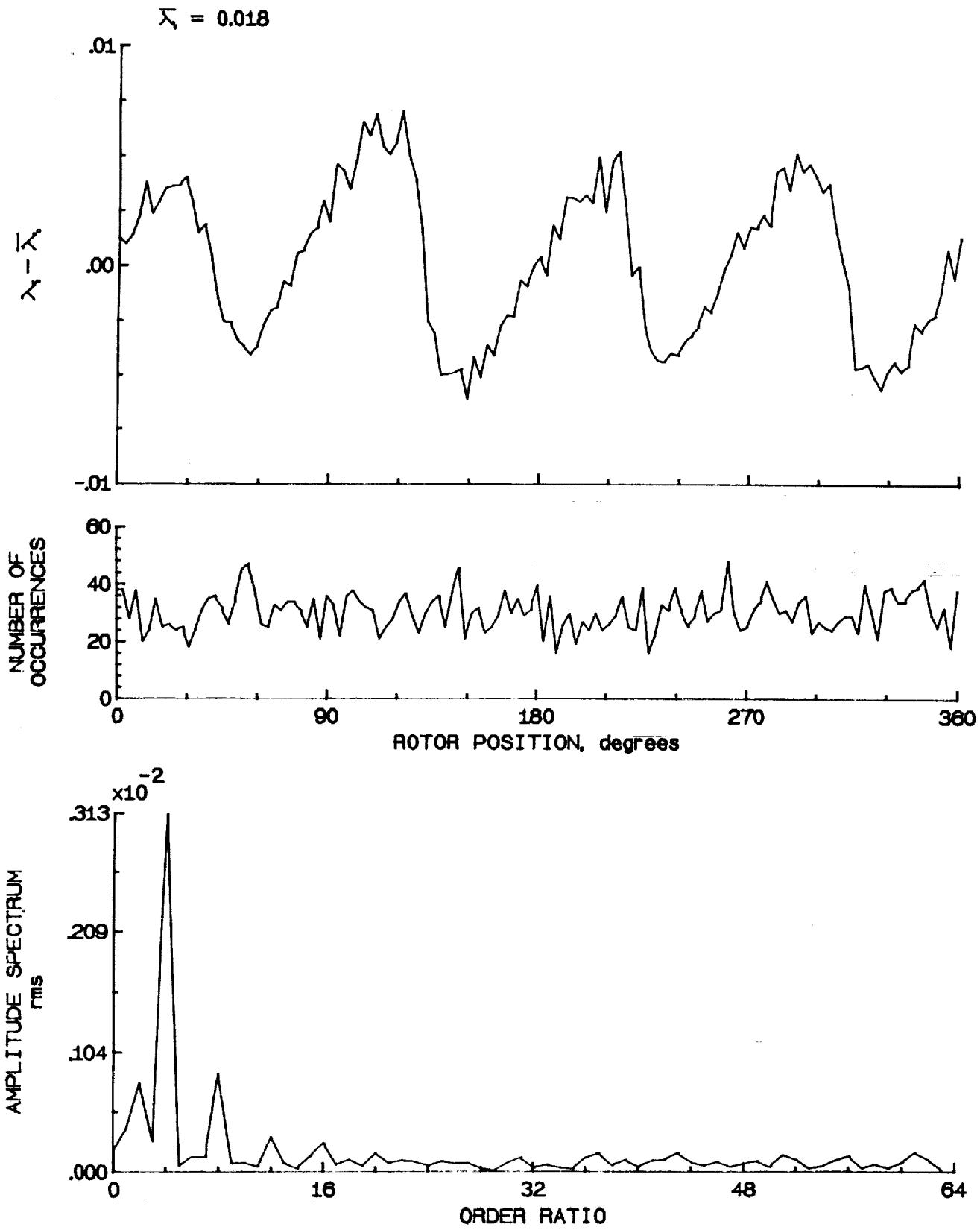


Figure 80.- Concluded

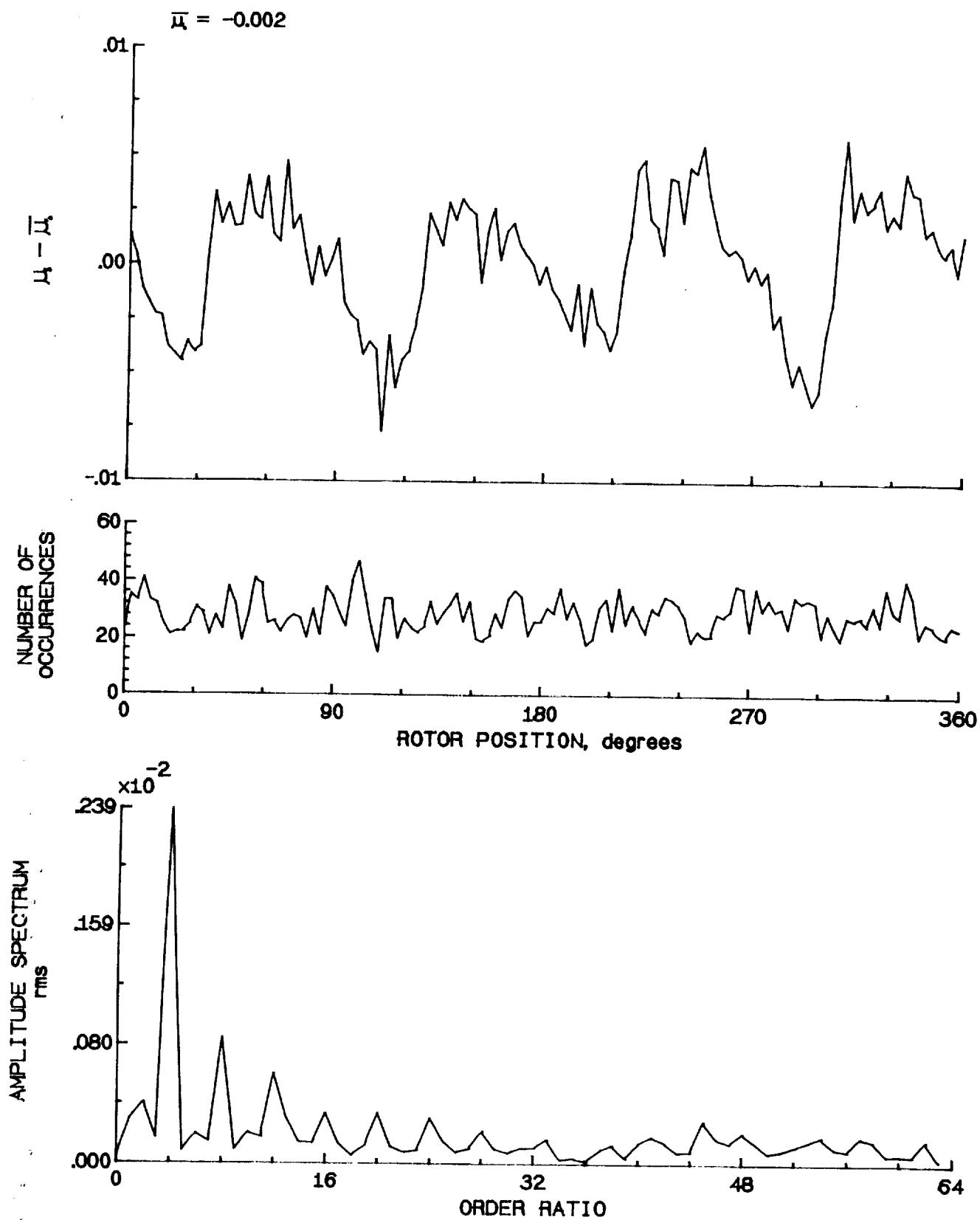


Figure 81.- Induced inflow velocity measured at 120 degrees and r/R of 0.73.

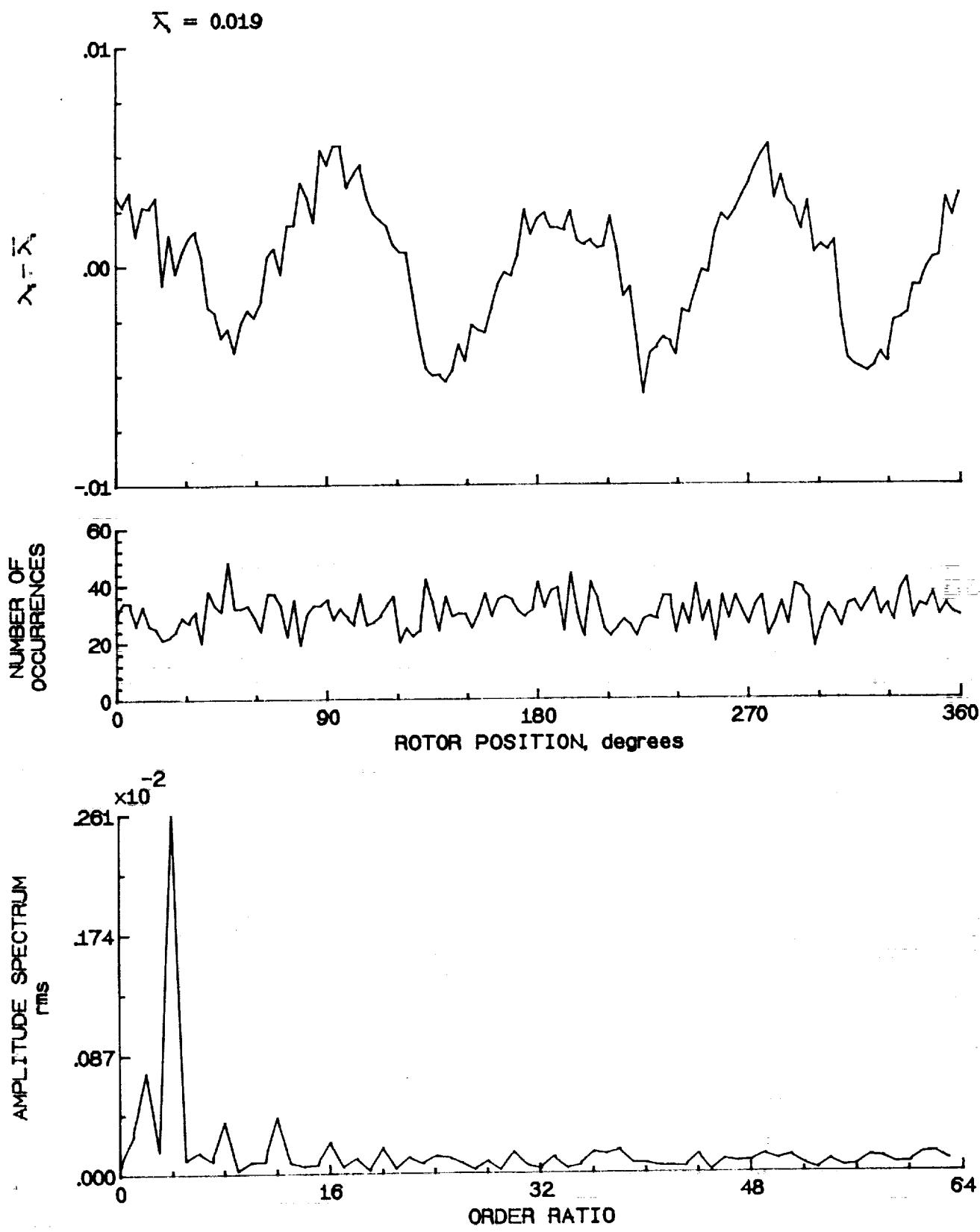


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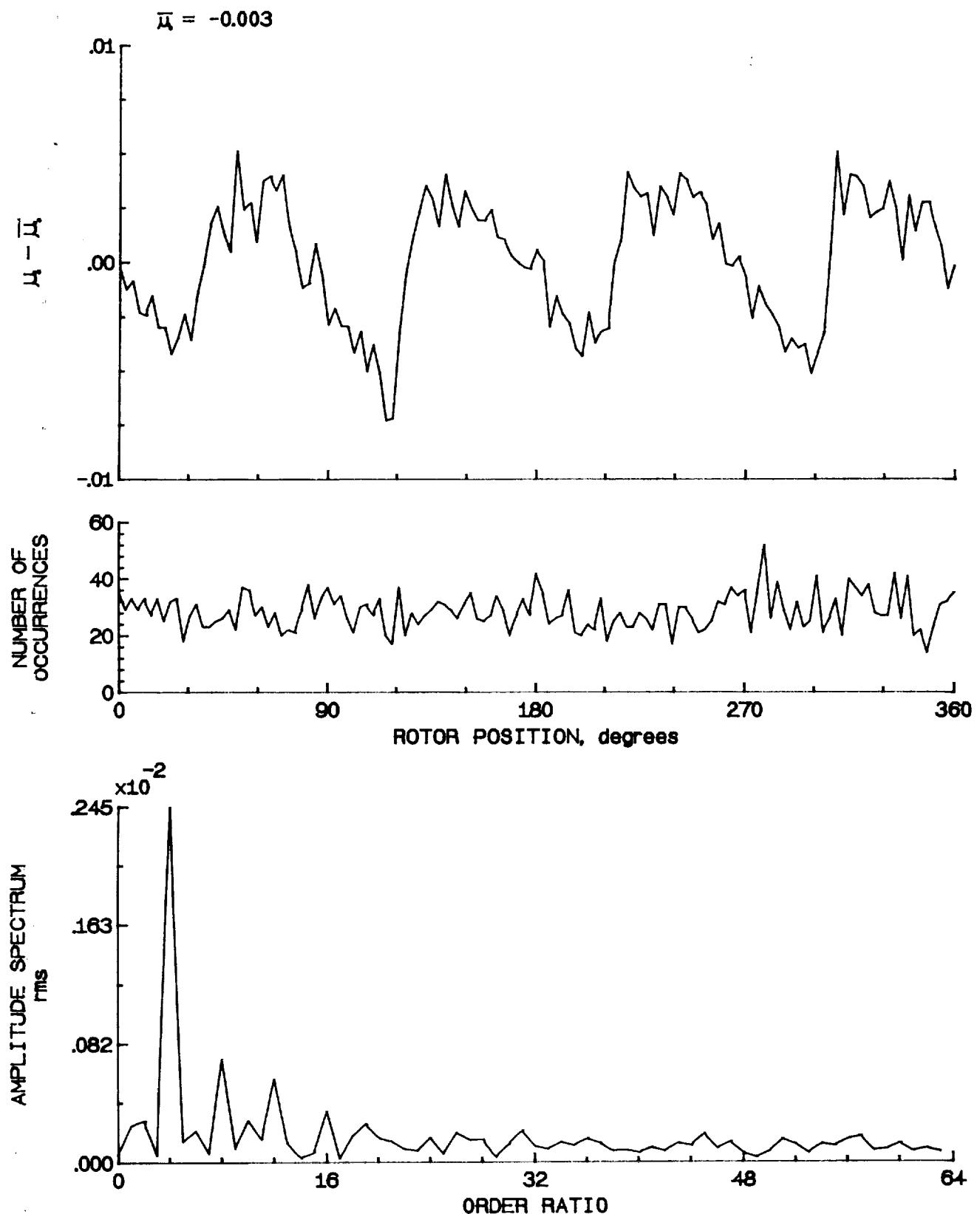


Figure 82.- Induced inflow velocity measured at 120 degrees and r/R of 0.75.

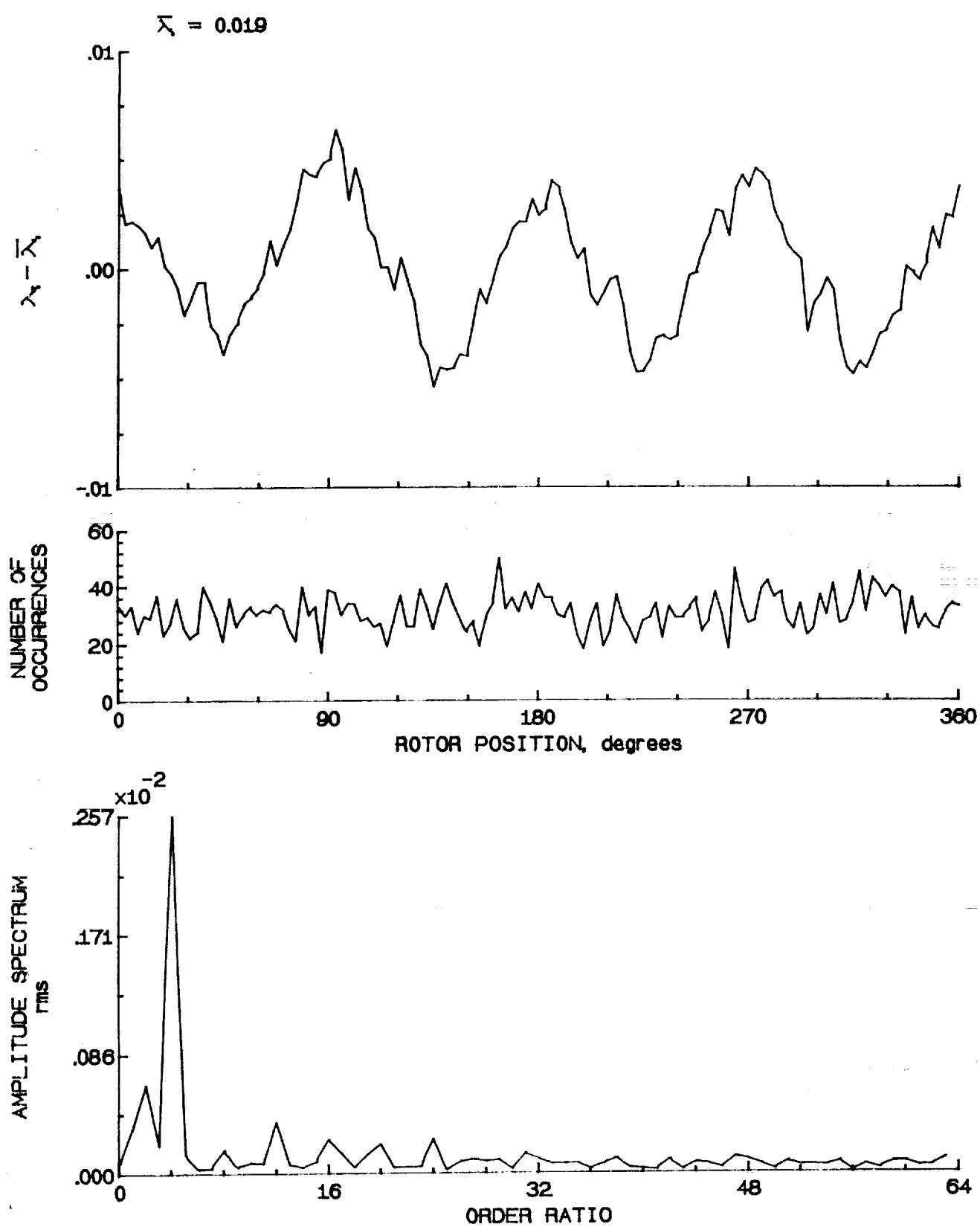


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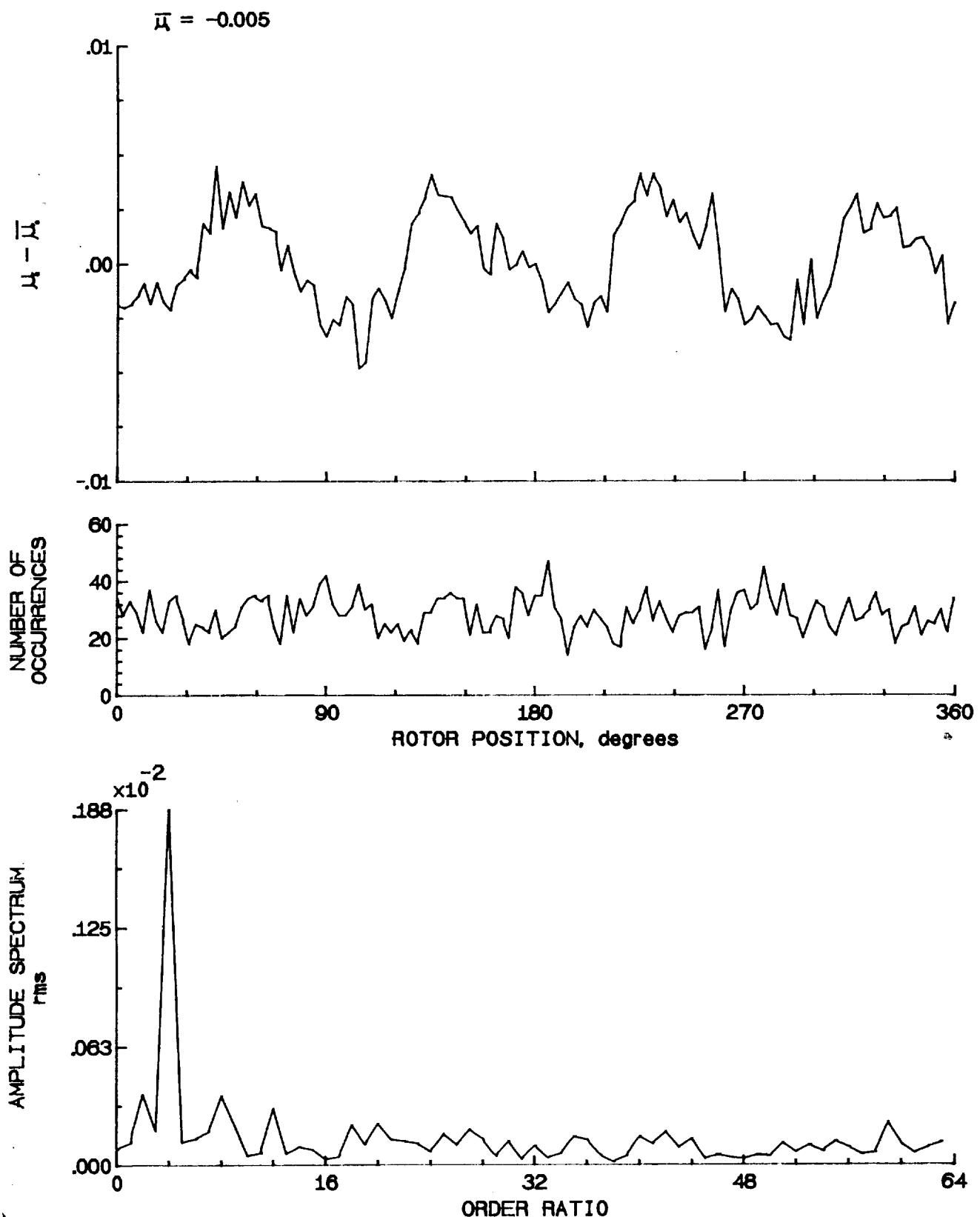


Figure 83.- Induced inflow velocity measured at 120 degrees and r/R of 0.81.

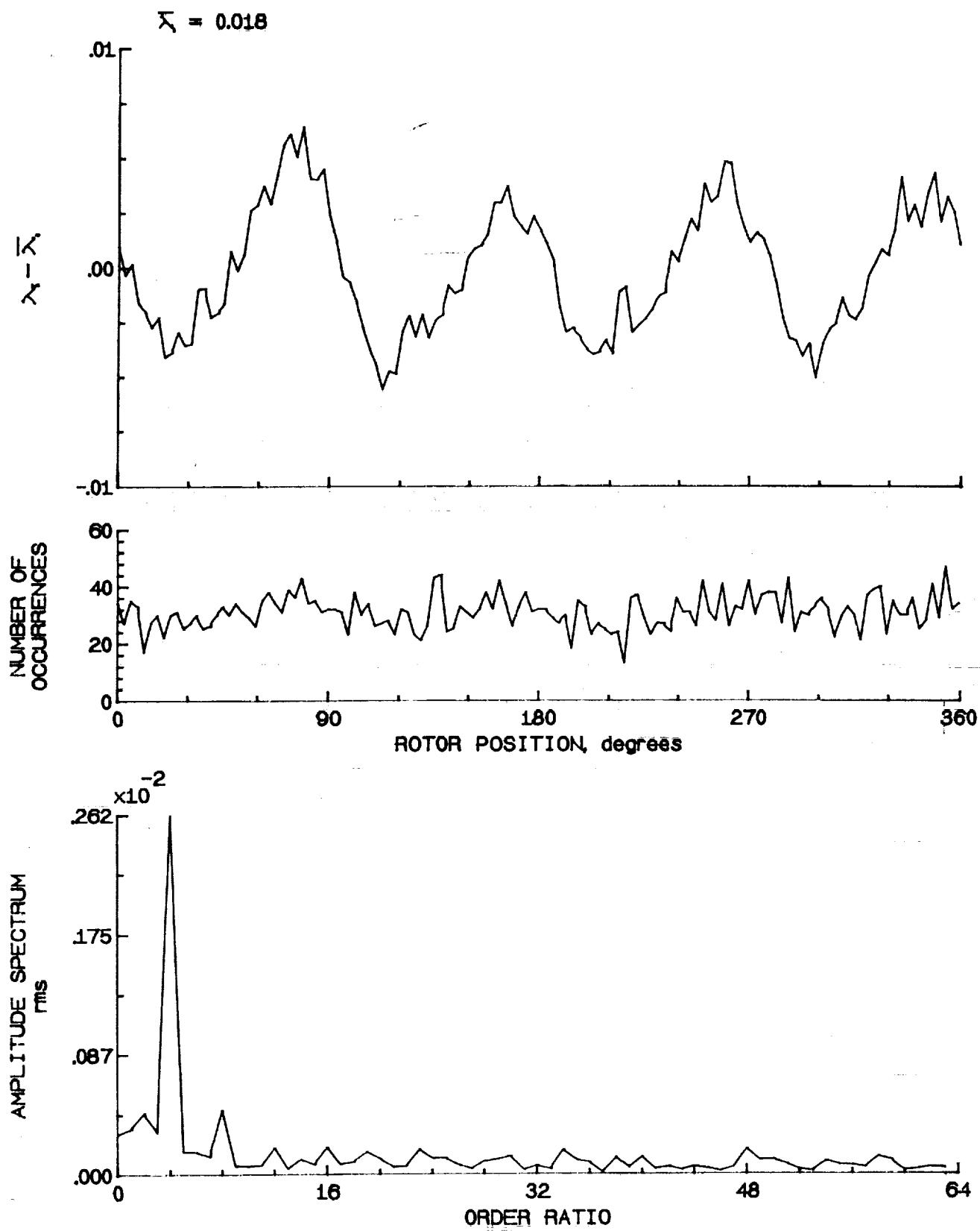


Figure 83.- Concluded.

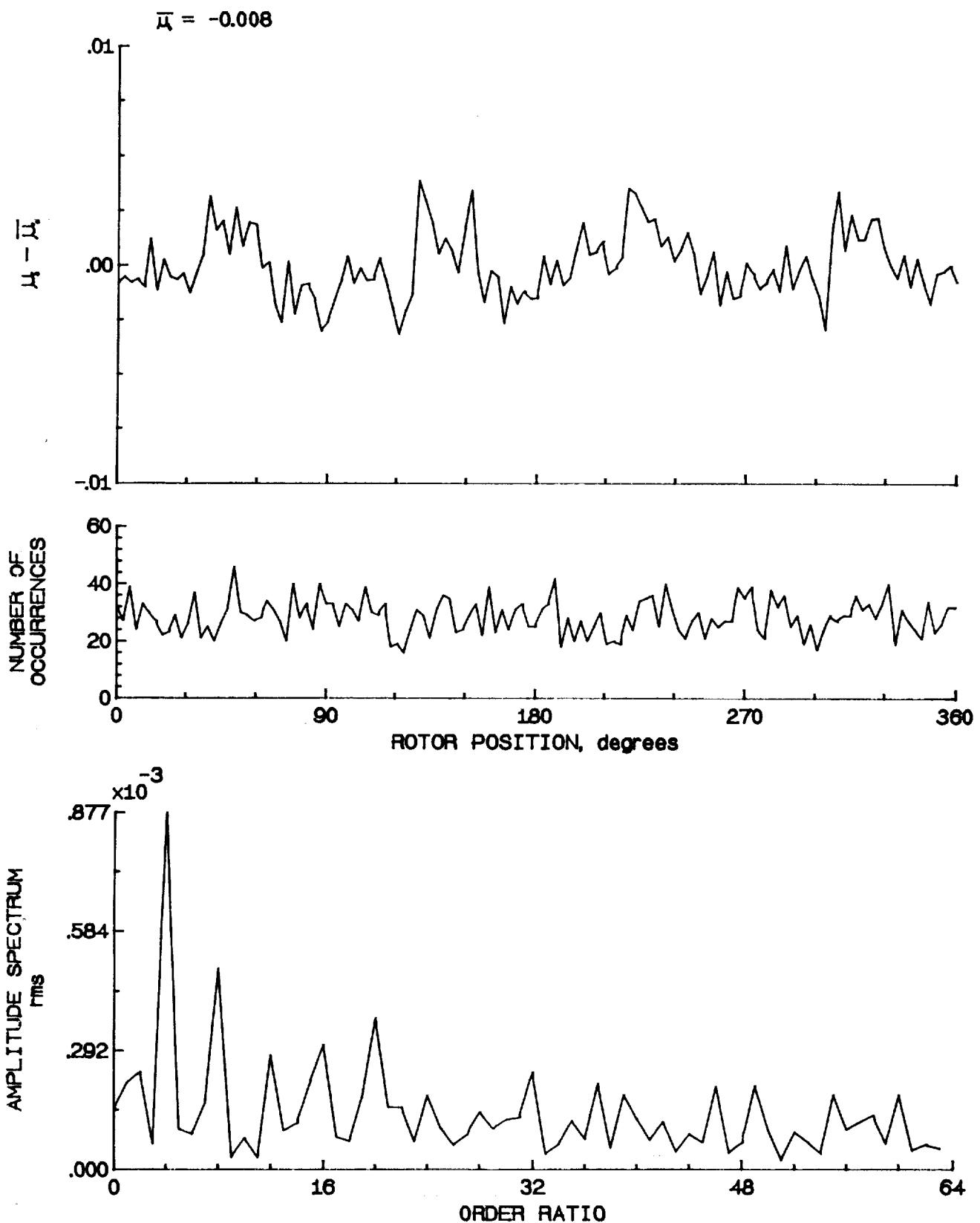


Figure 84.- Induced inflow velocity measured at 120 degrees and r/R of 0.86.

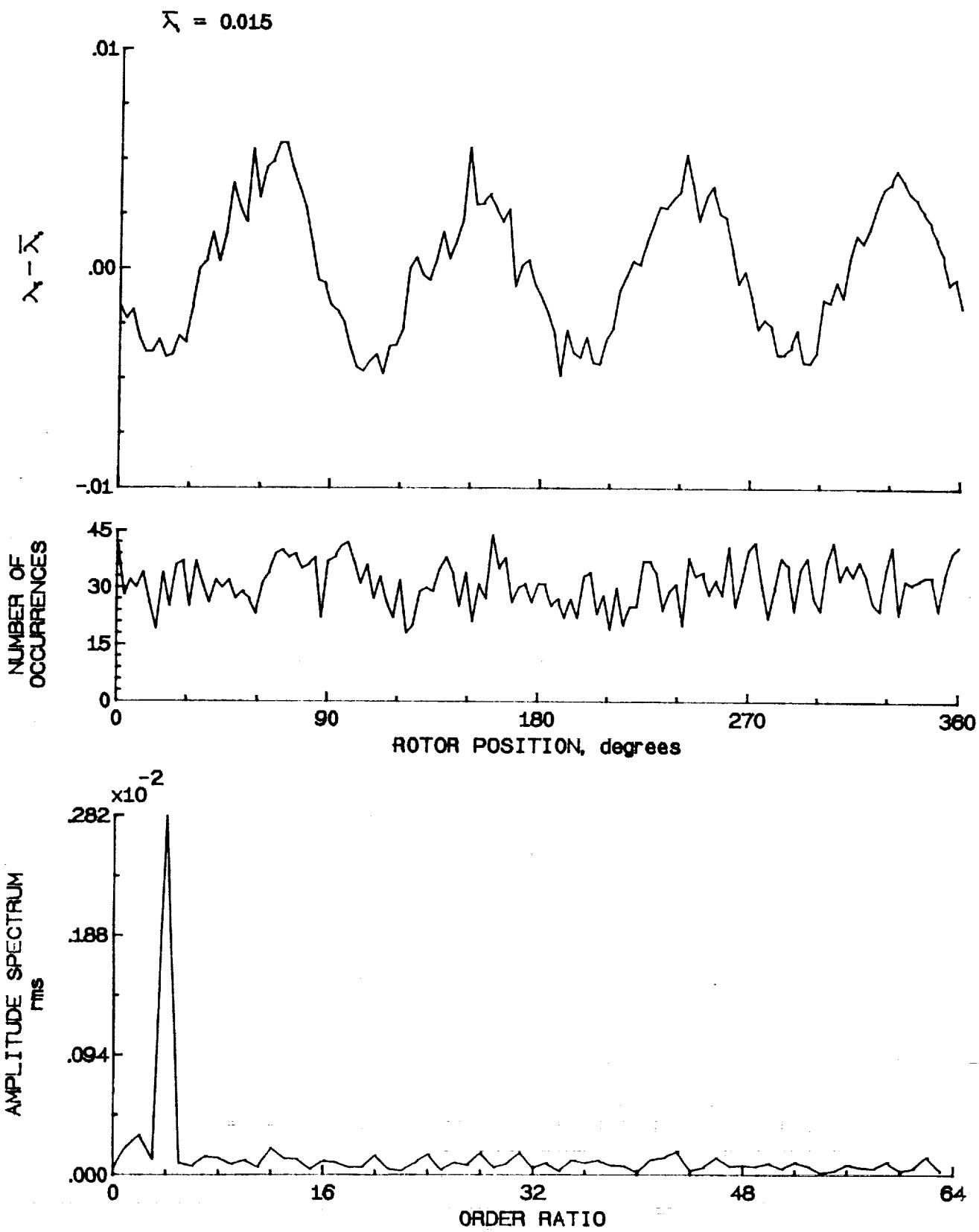


Figure 84.- Concluded.

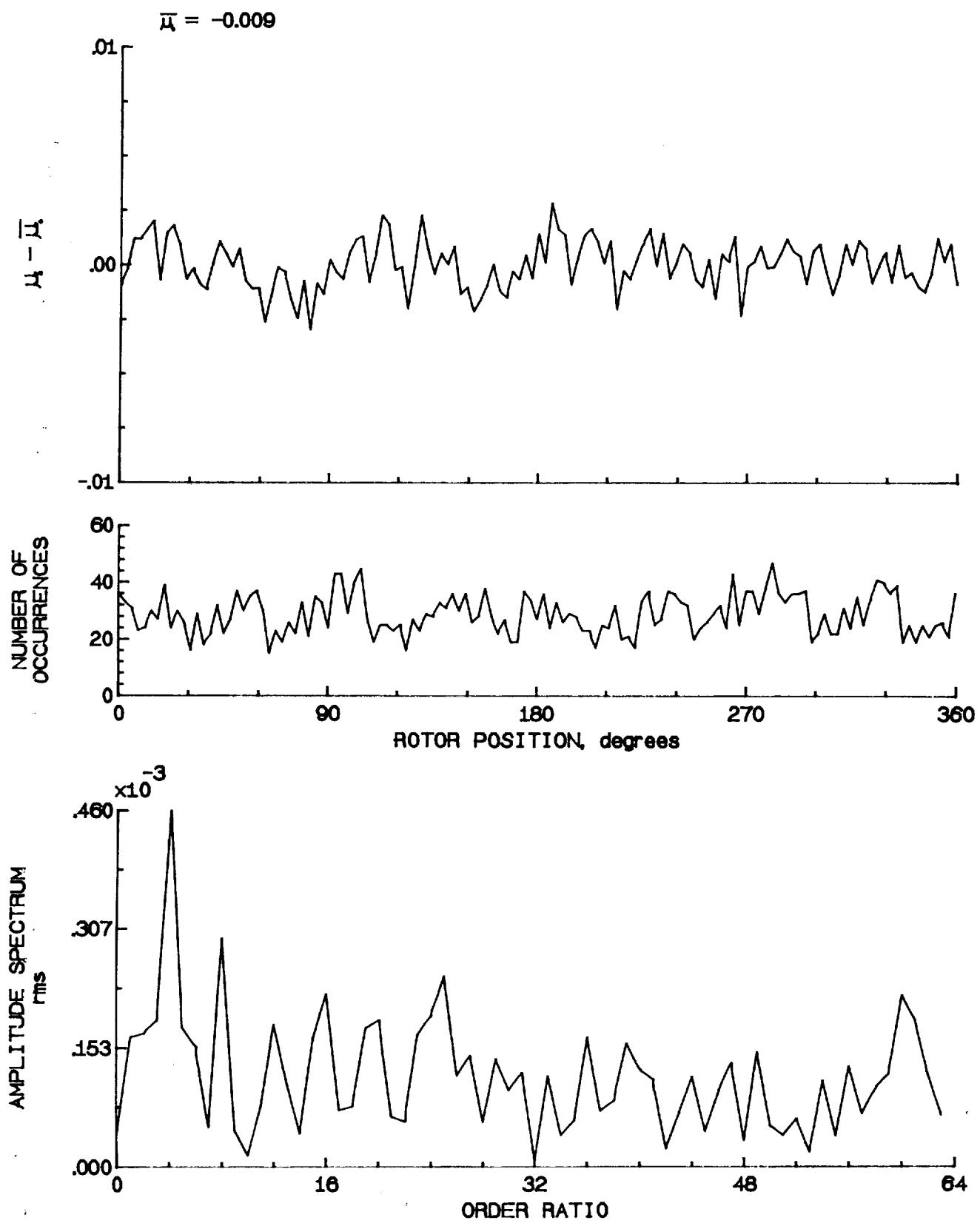


Figure 85.- Induced inflow velocity measured at 120 degrees and r/R of 0.90.

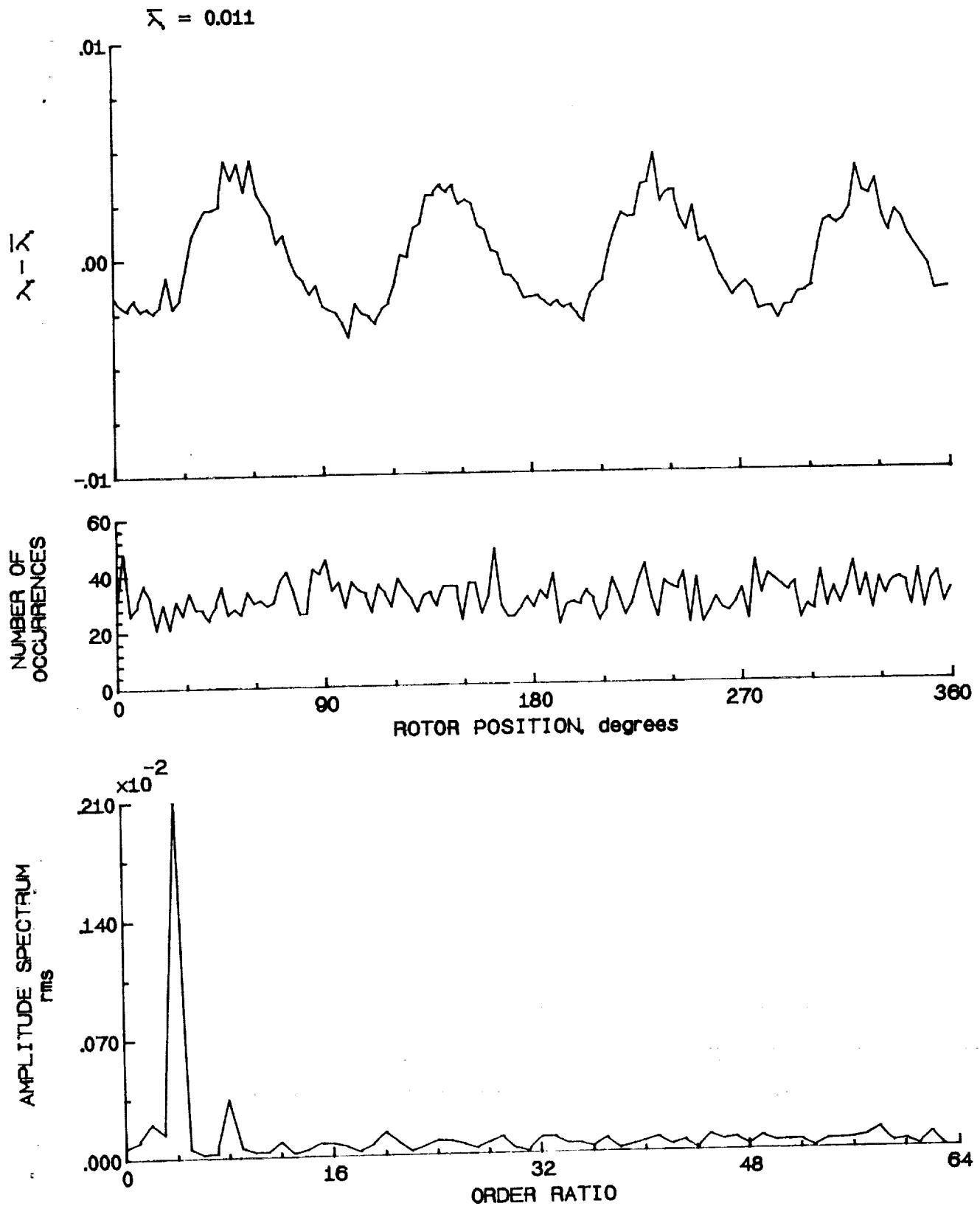


Figure 85.- Concluded.

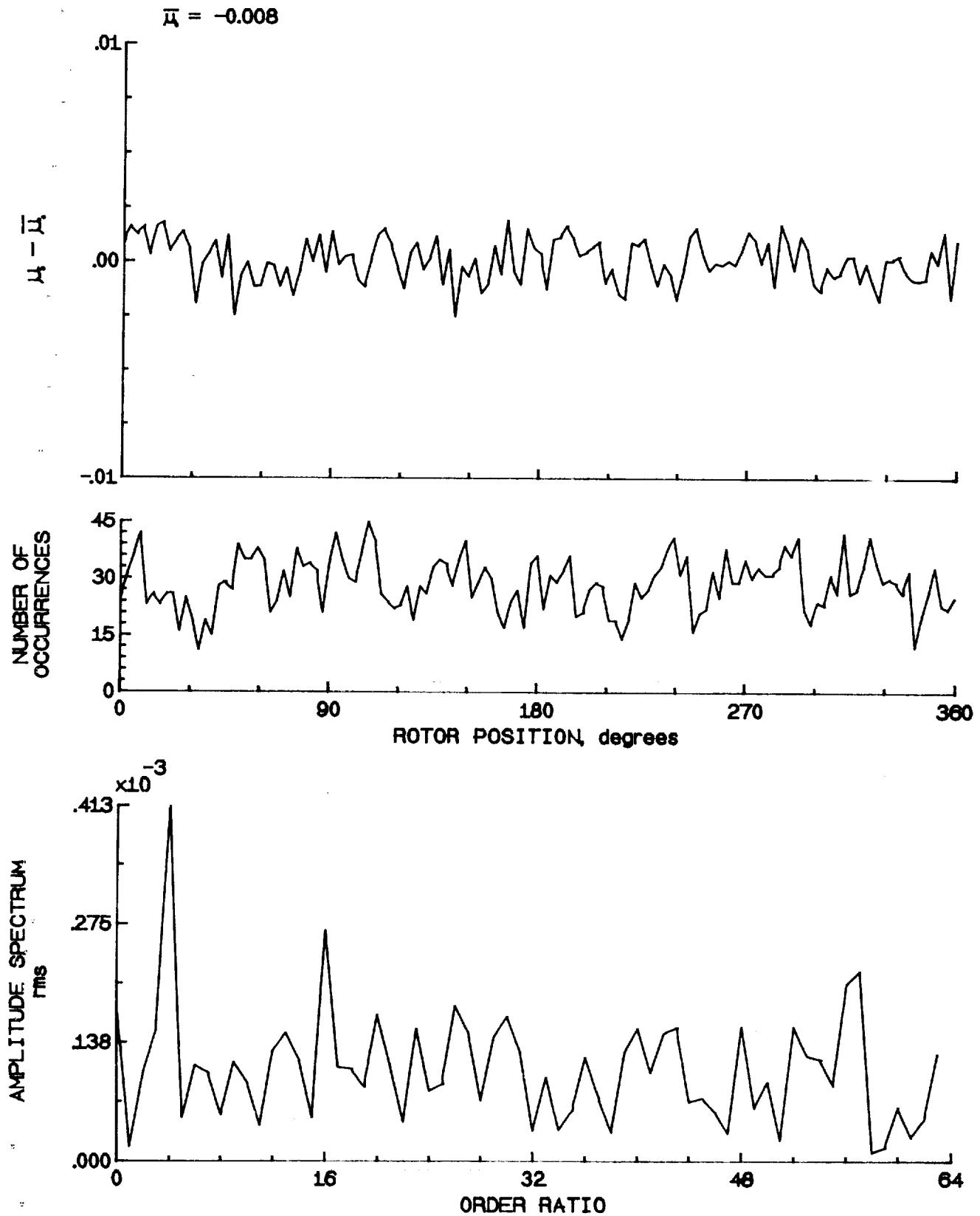


Figure 86.- Induced inflow velocity measured at 120 degrees and r/R of 0.94.

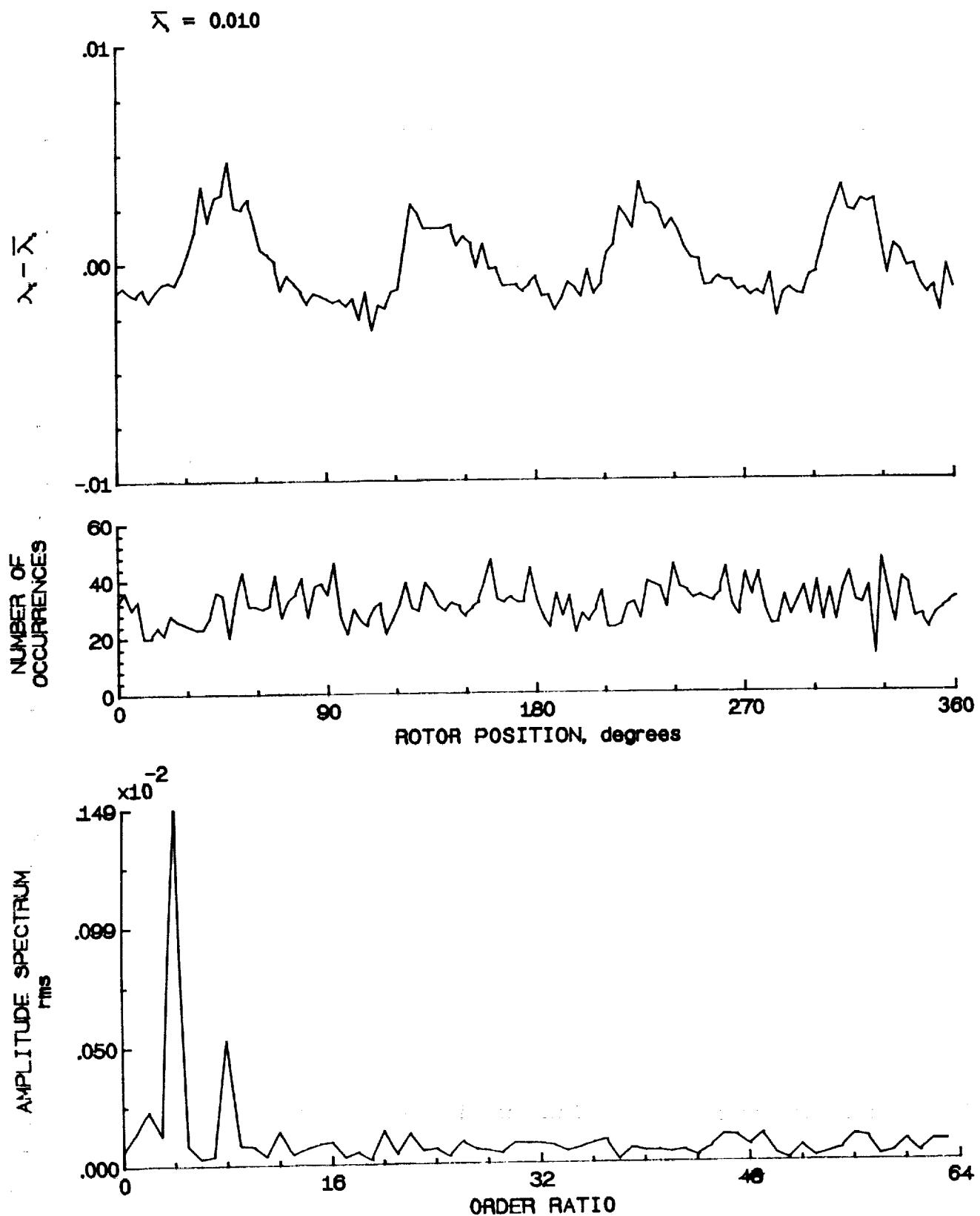


Figure 86.- Concluded.

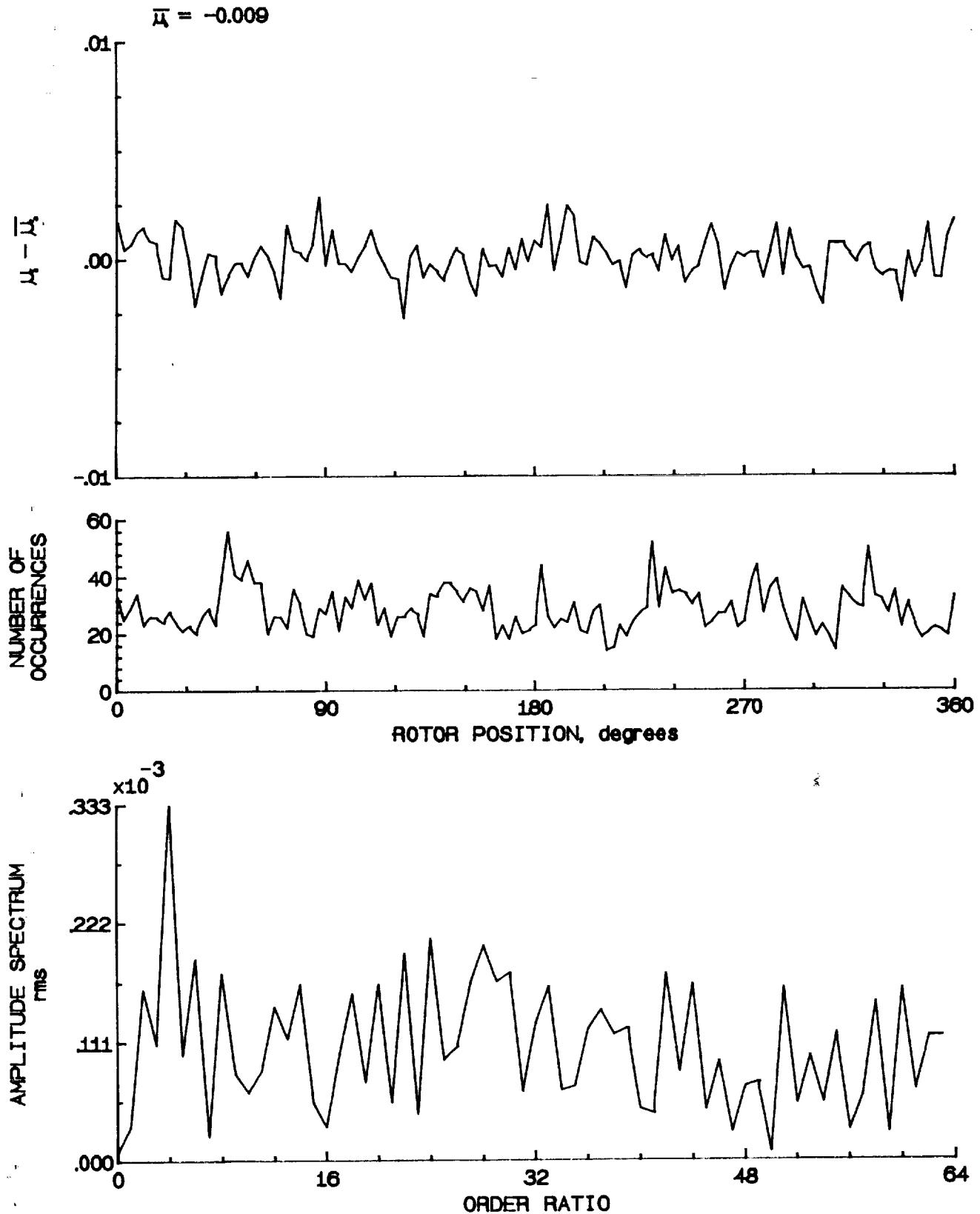


Figure 87.- Induced inflow velocity measured \bullet 120 degrees and r/R of 0.96.

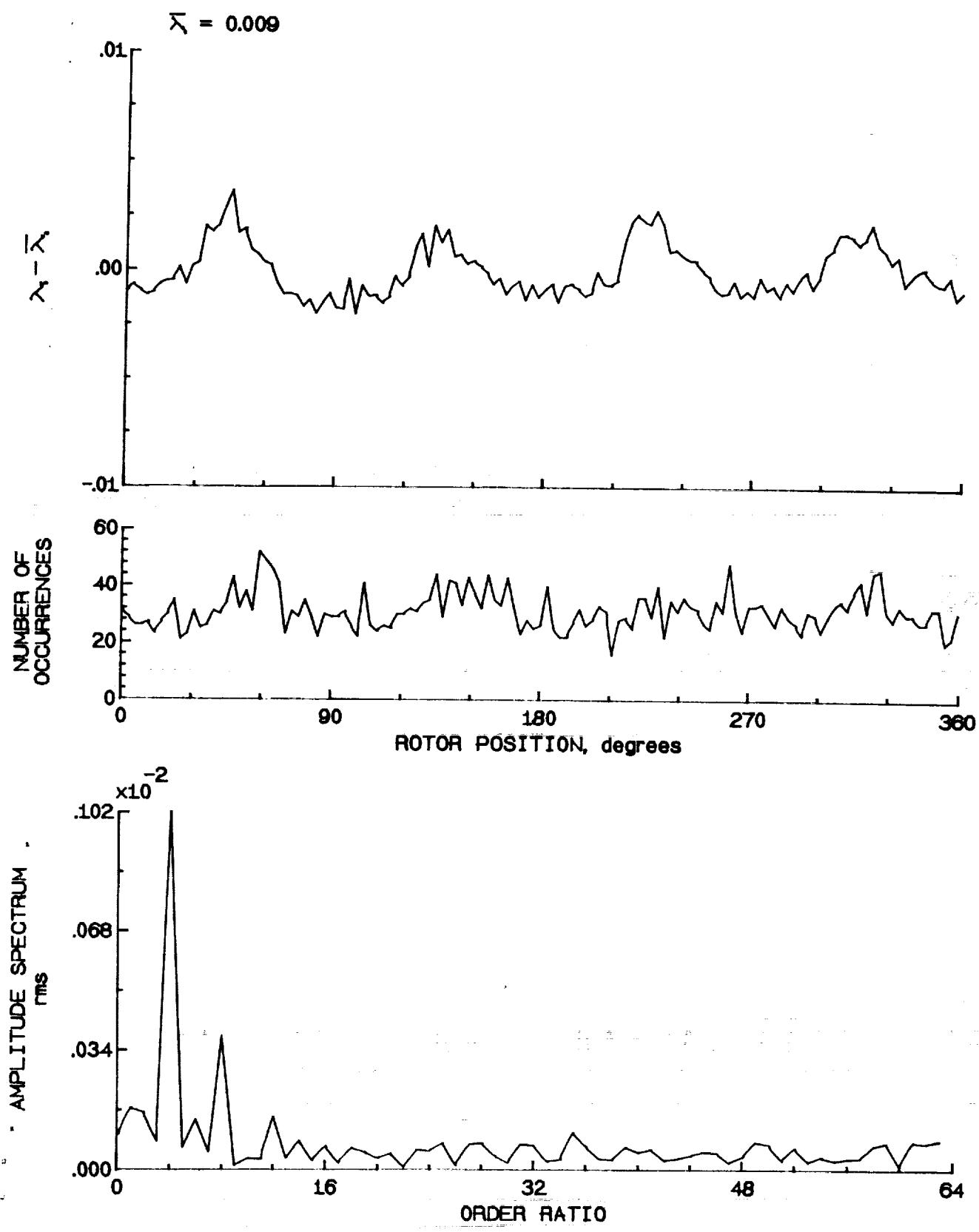


Figure 87.- Concluded.

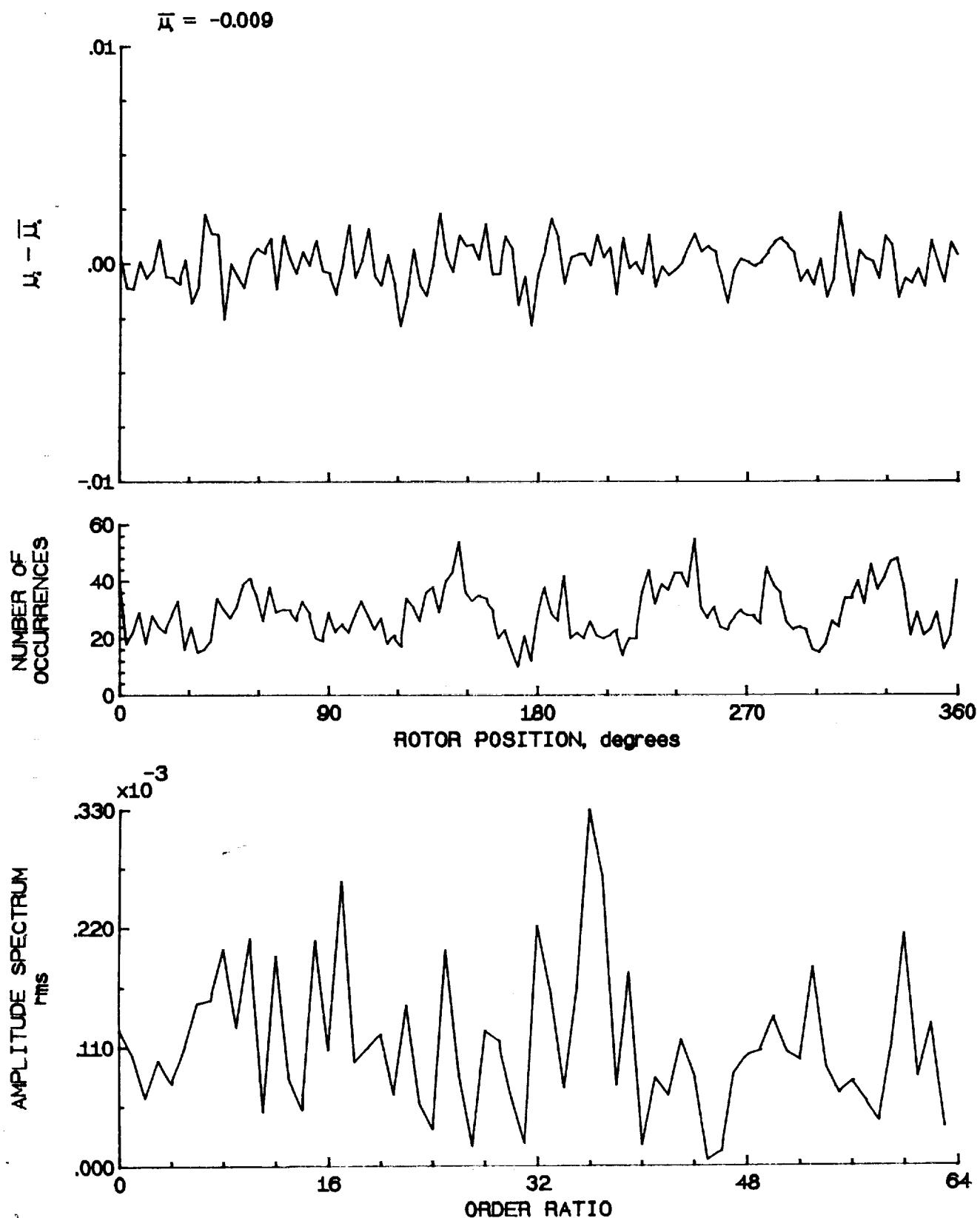


Figure 88.- Induced inflow velocity measured at 120 degrees and r/R of 1.00.

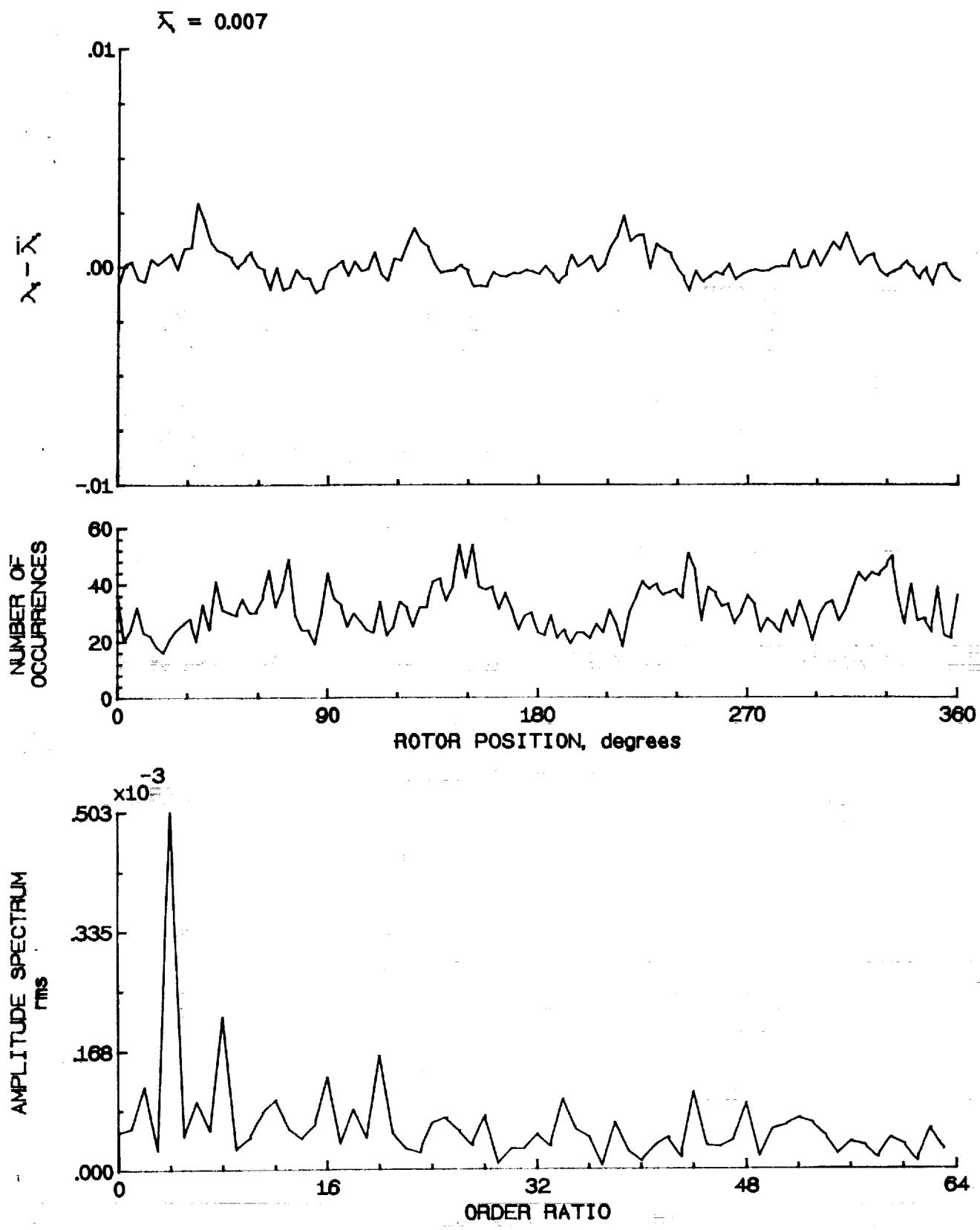


Figure 88.- Concluded.

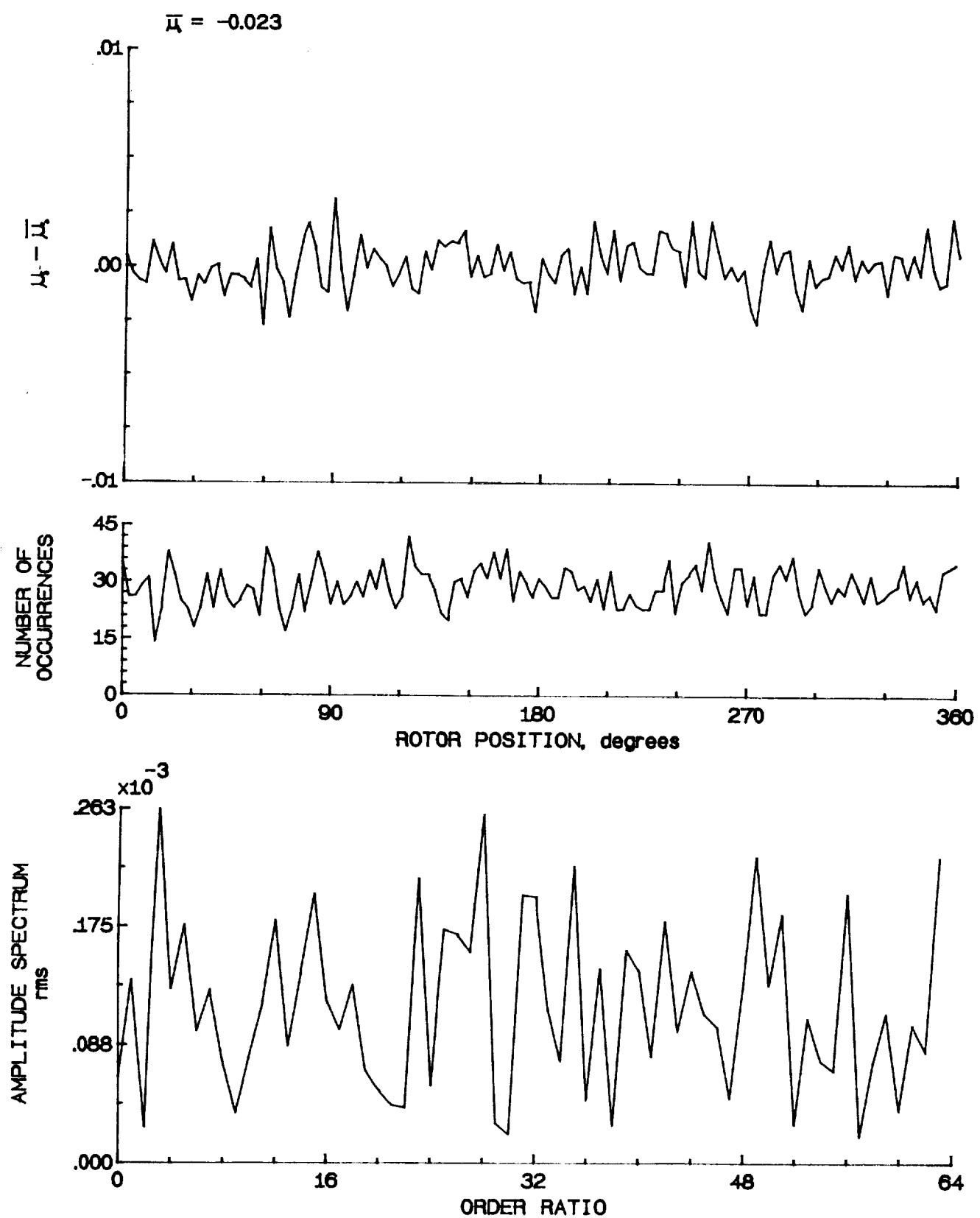


Figure 89.- Induced inflow velocity measured at 120 degrees and r/R of 1.10.

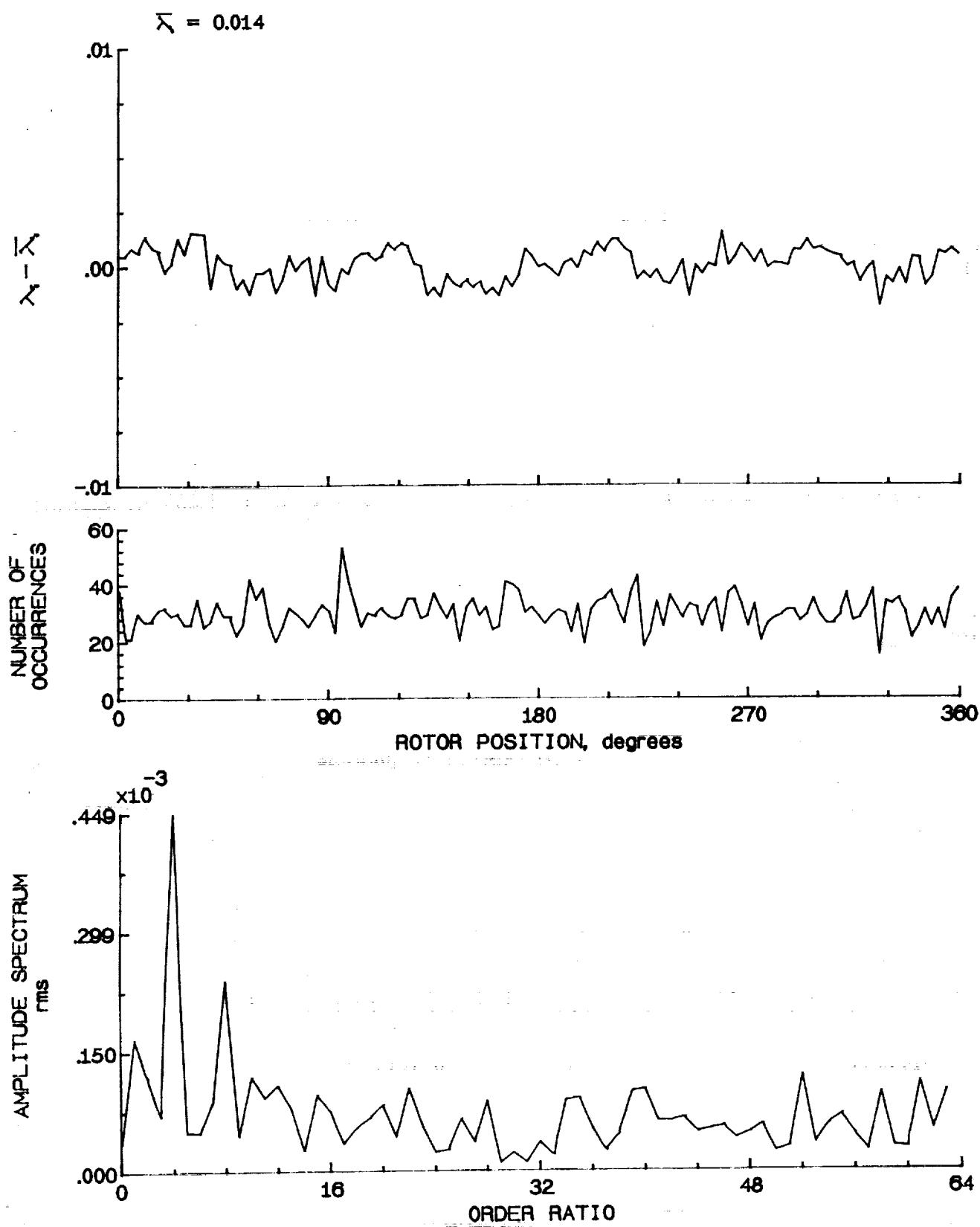


Figure 89.- Concluded.

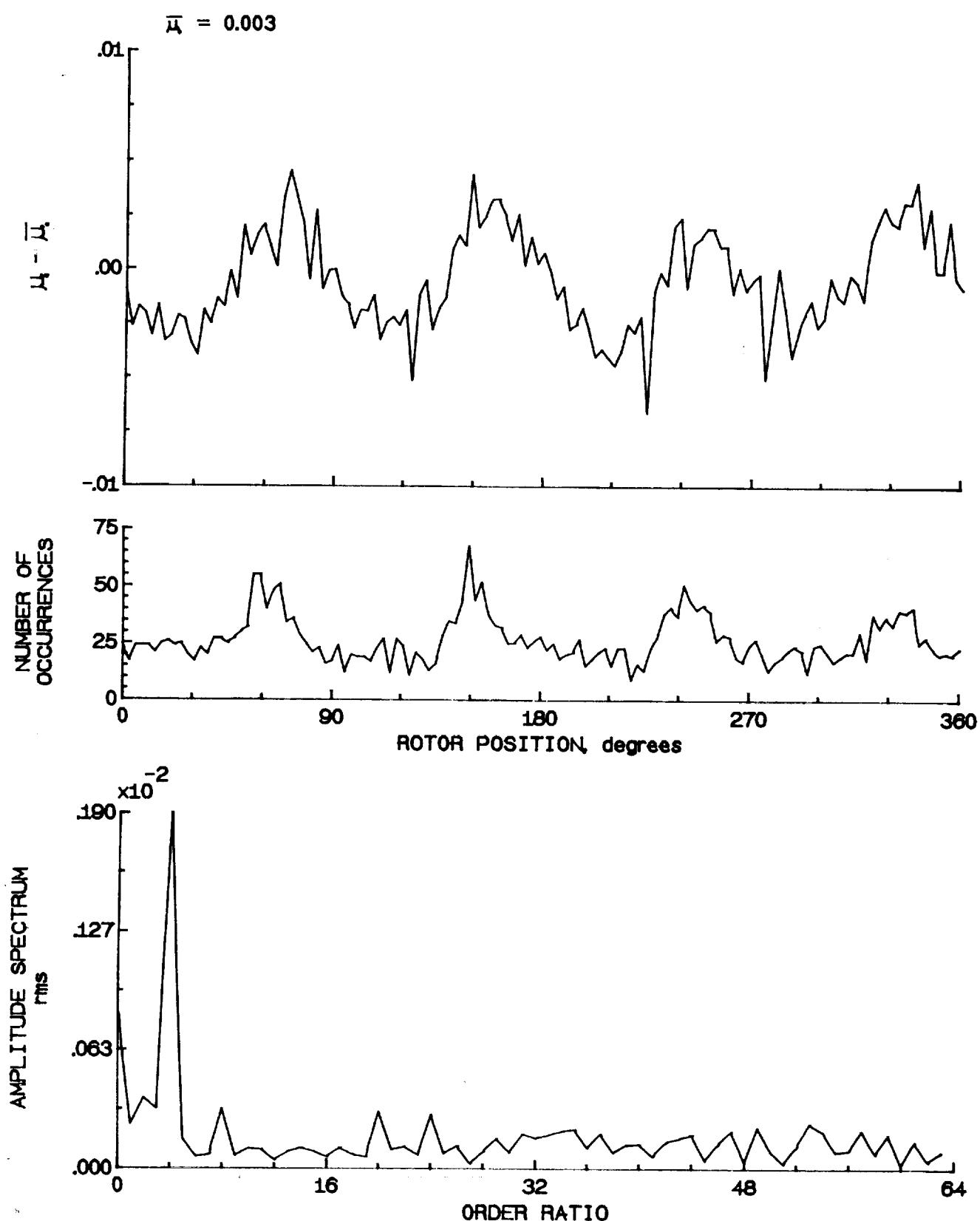


Figure 90.- Induced inflow velocity measured at 150 degrees and r/R of 0.20.

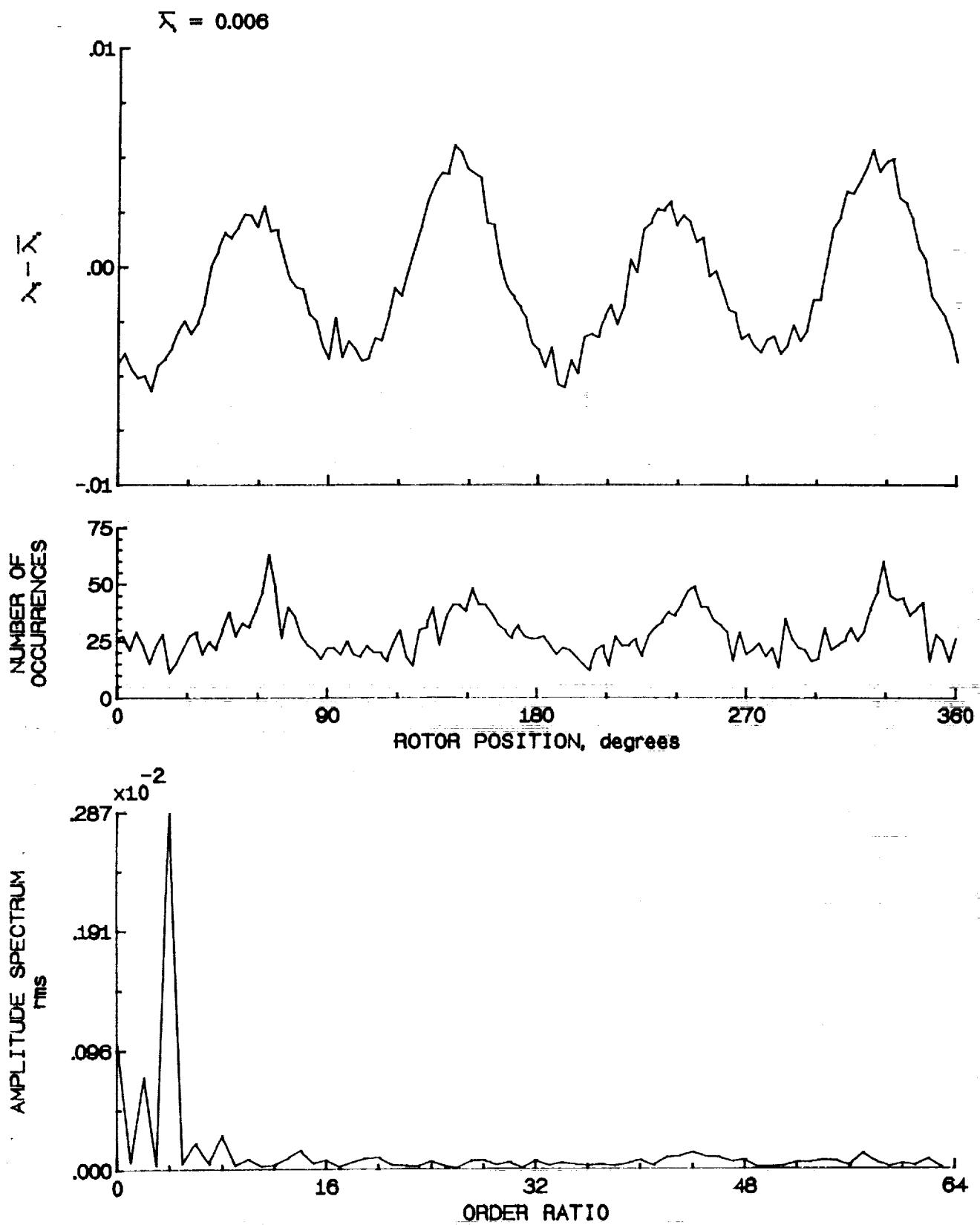


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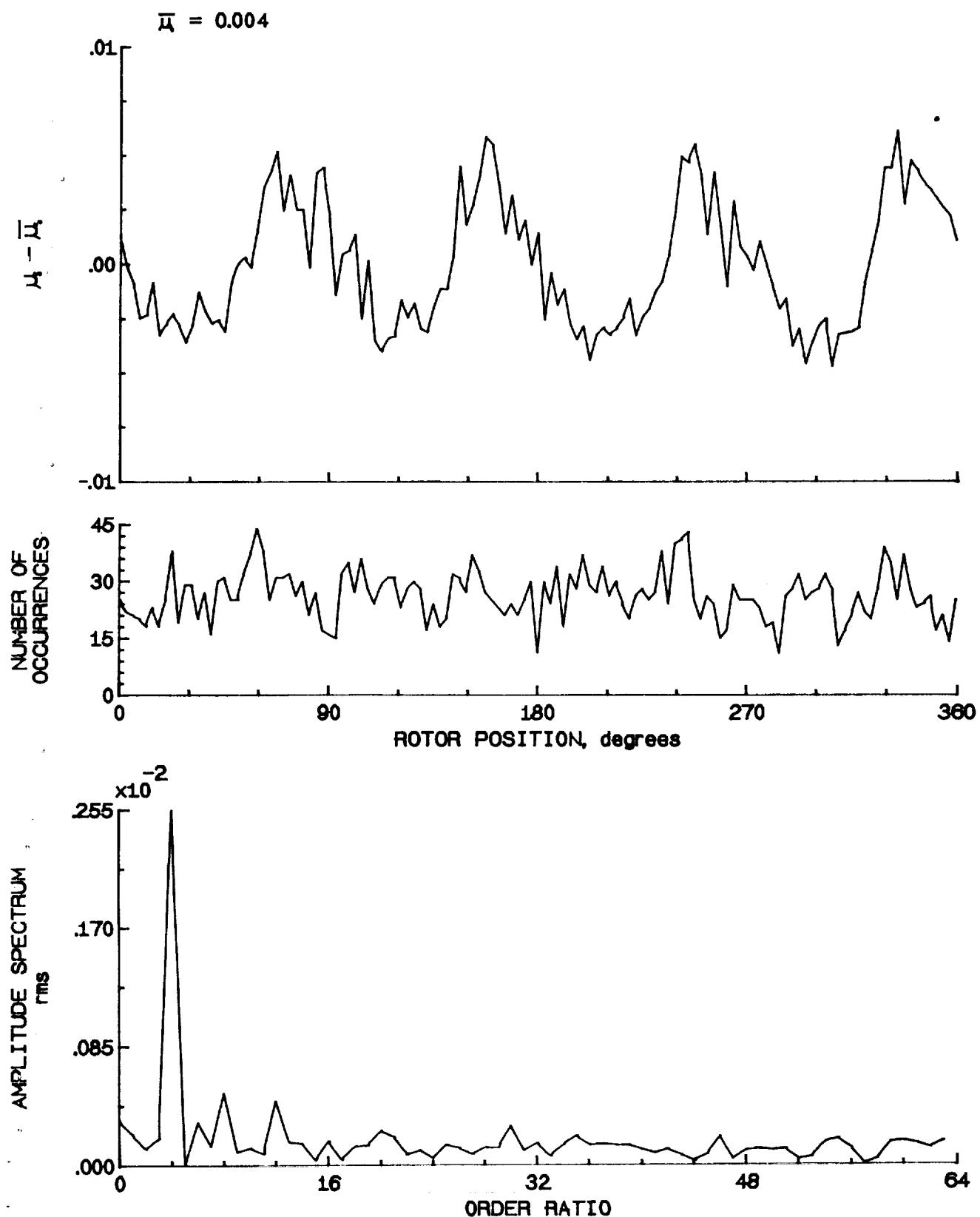


Figure 91- Induced inflow velocity measured at 150 degrees and r/R of 0.32.

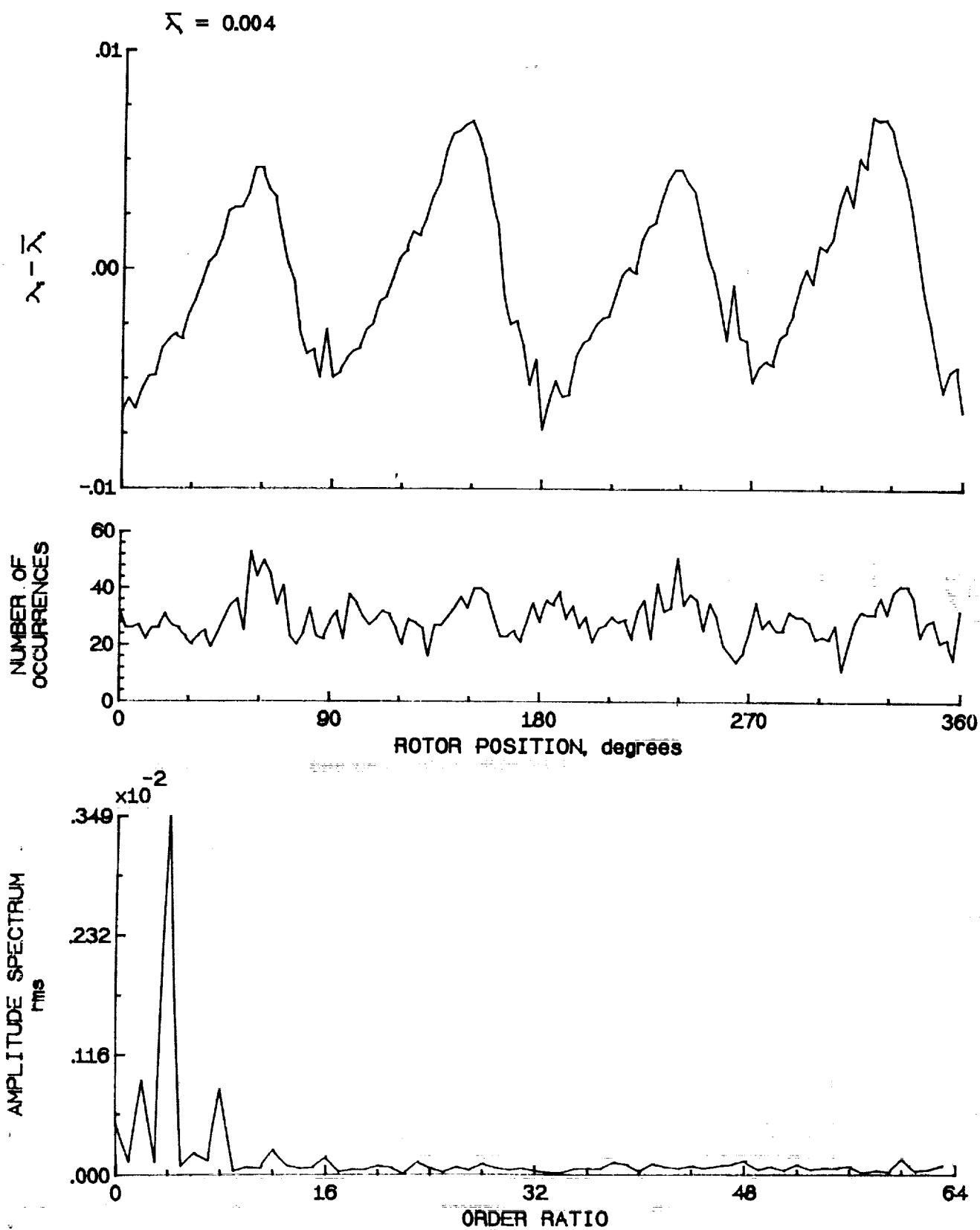


Figure 91—Concluded.

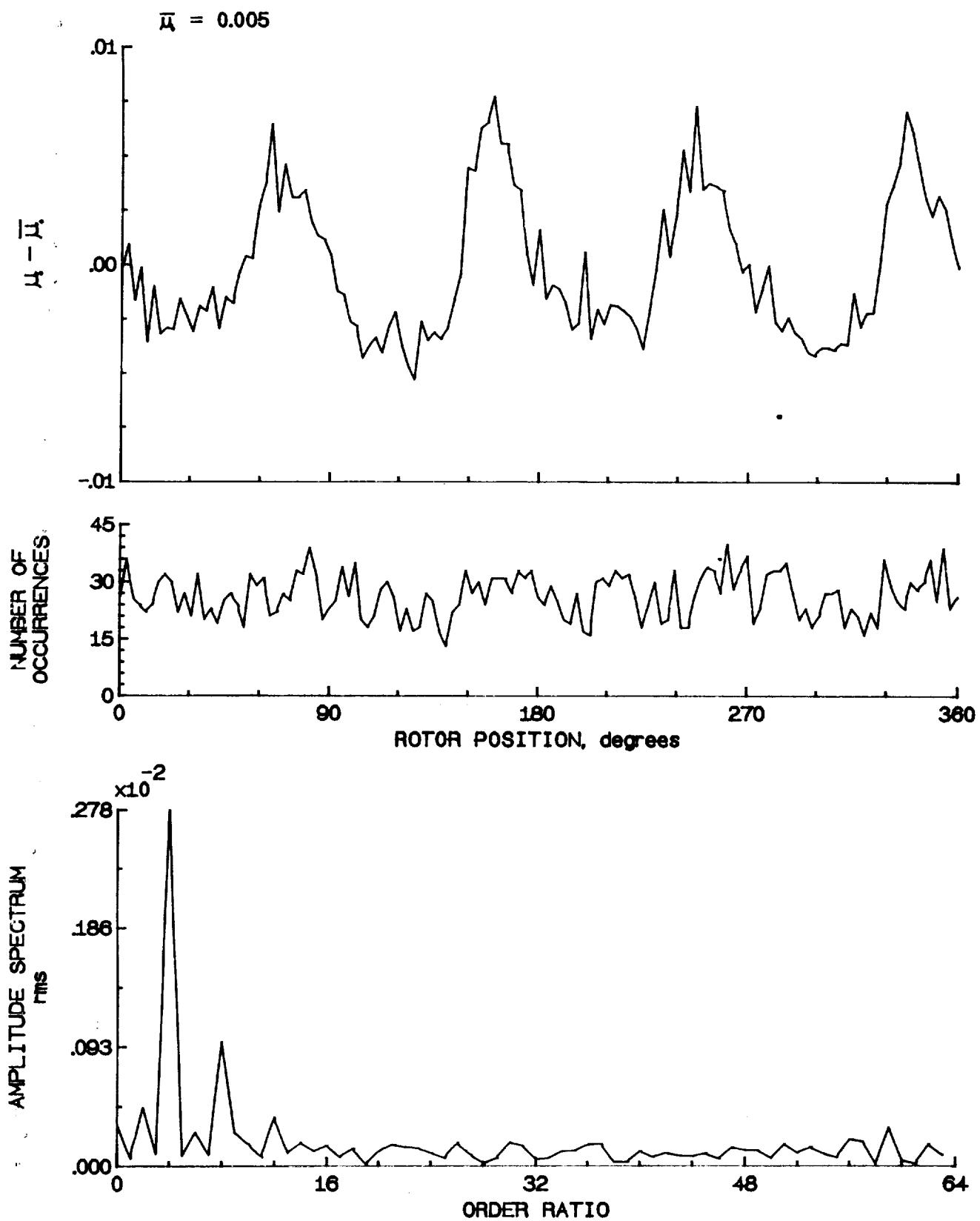


Figure 92—Induced inflow velocity measured at 150 degrees and r/R of 0.50.

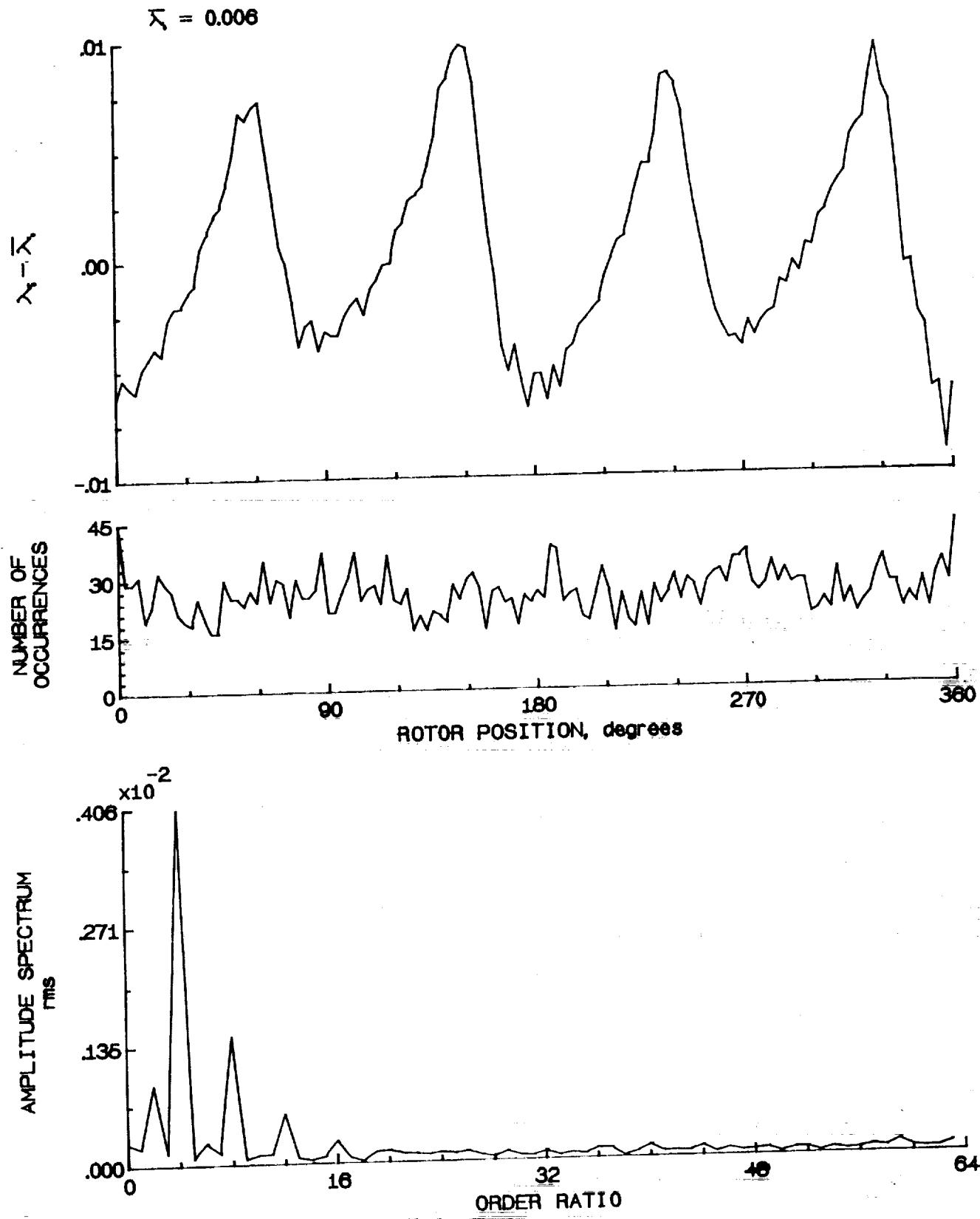


Figure 92- Concluded

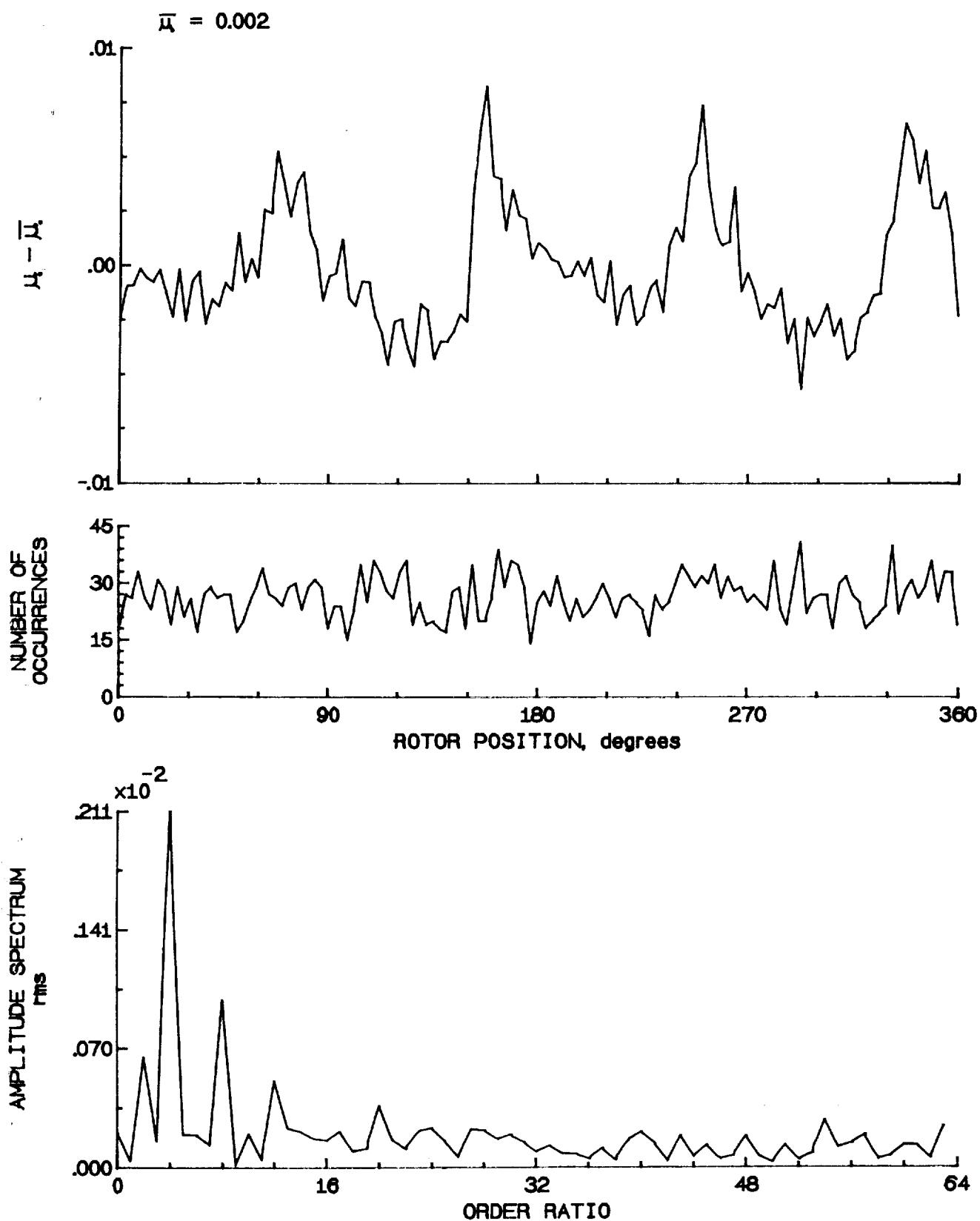


Figure 93.- Induced inflow velocity measured at 150 degrees and r/R of 0.58.

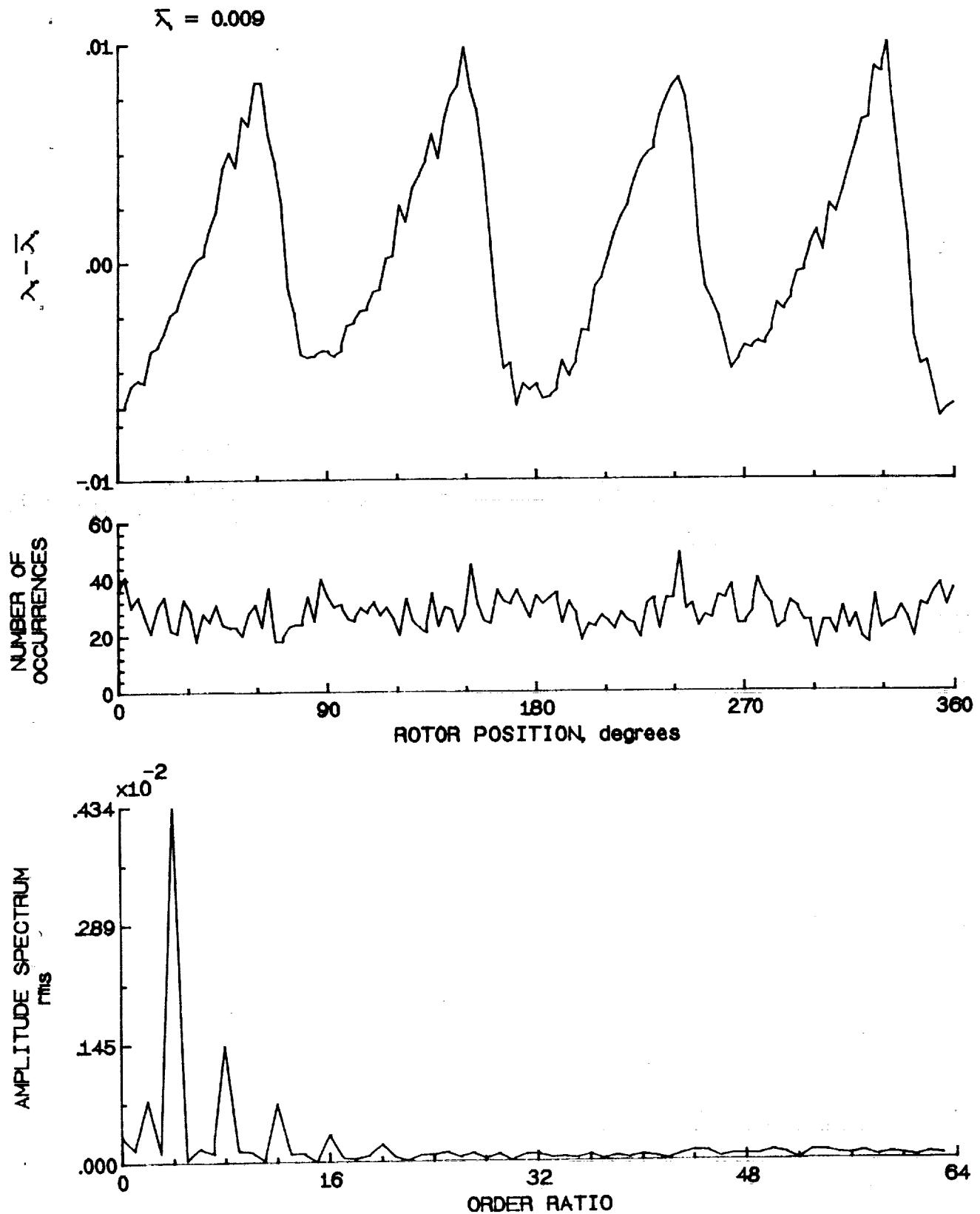


Figure 93.- Concluded.

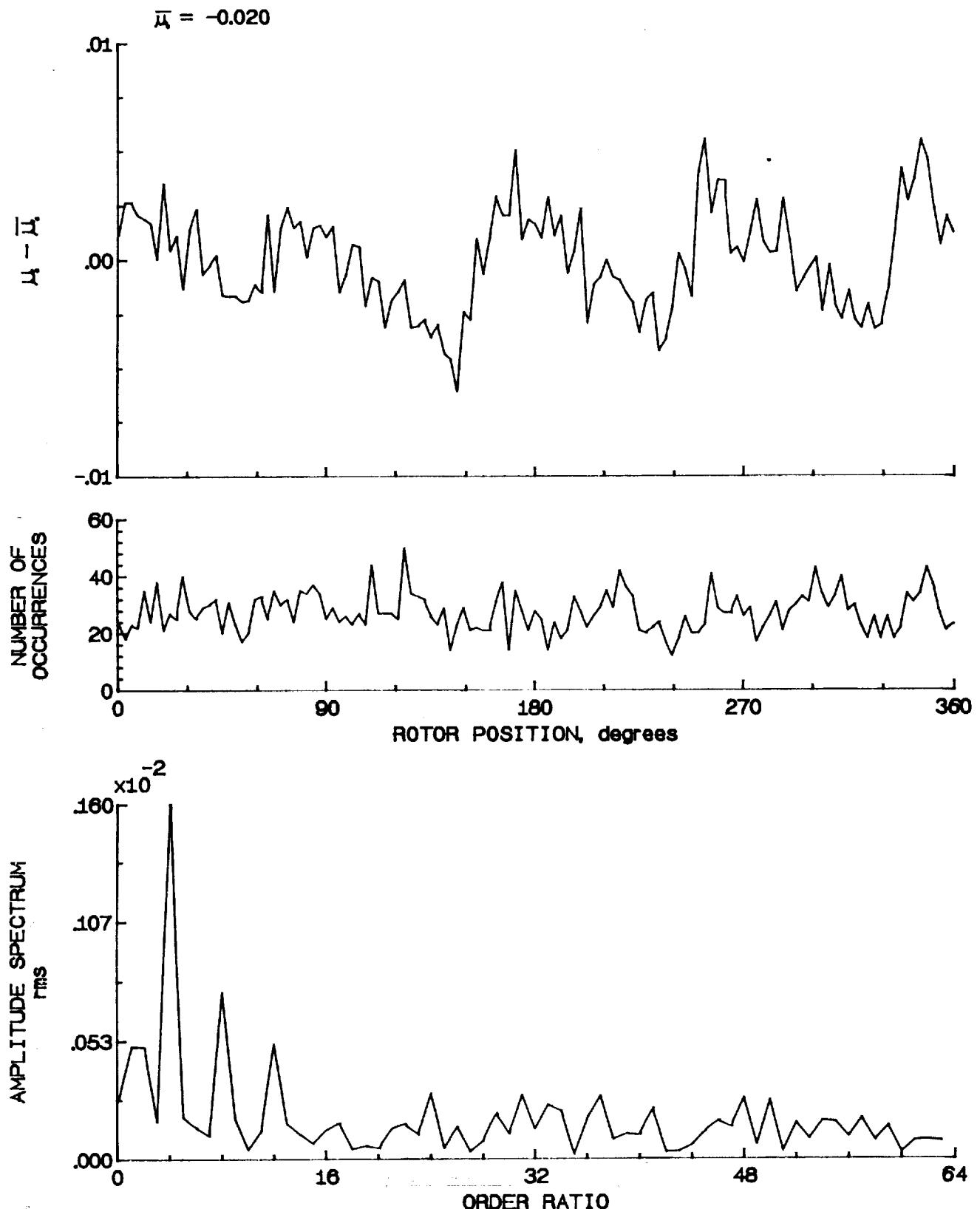


Figure 94.- Induced inflow velocity measured at 150 degrees and r/R of 0.69.

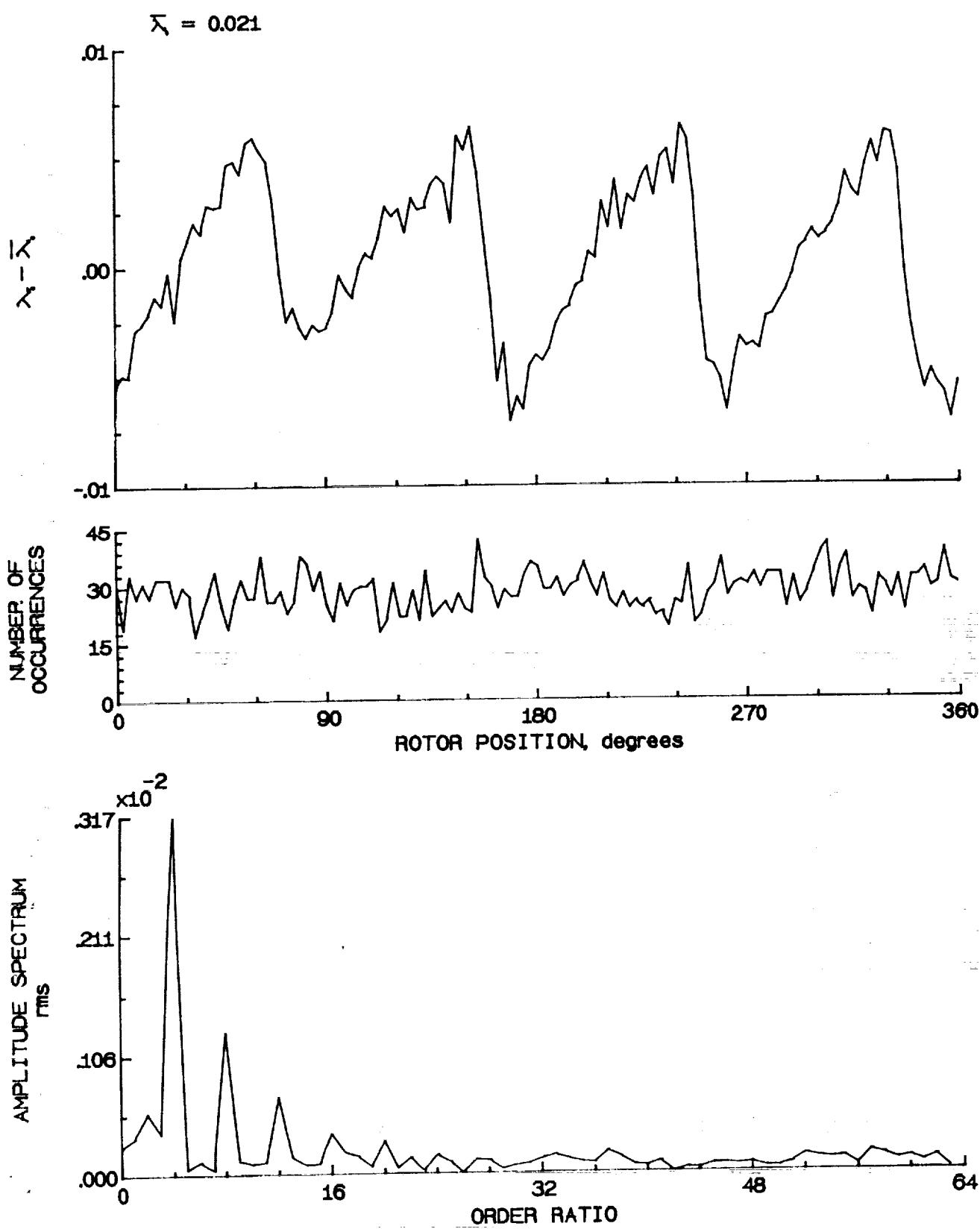


Figure 94.- Concluded.

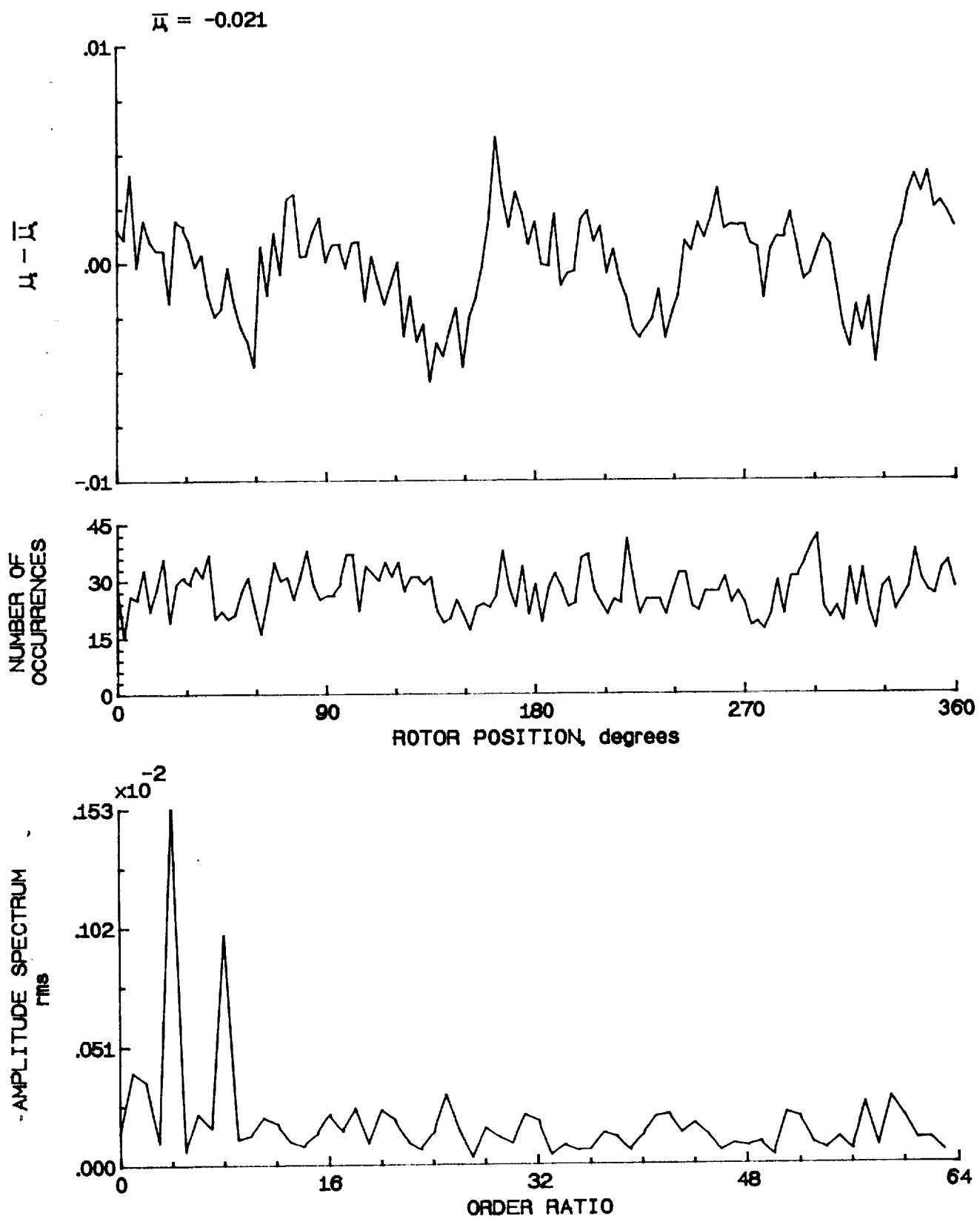


Figure 95.- Induced inflow velocity measured at 150 degrees and r/R of 0.73.

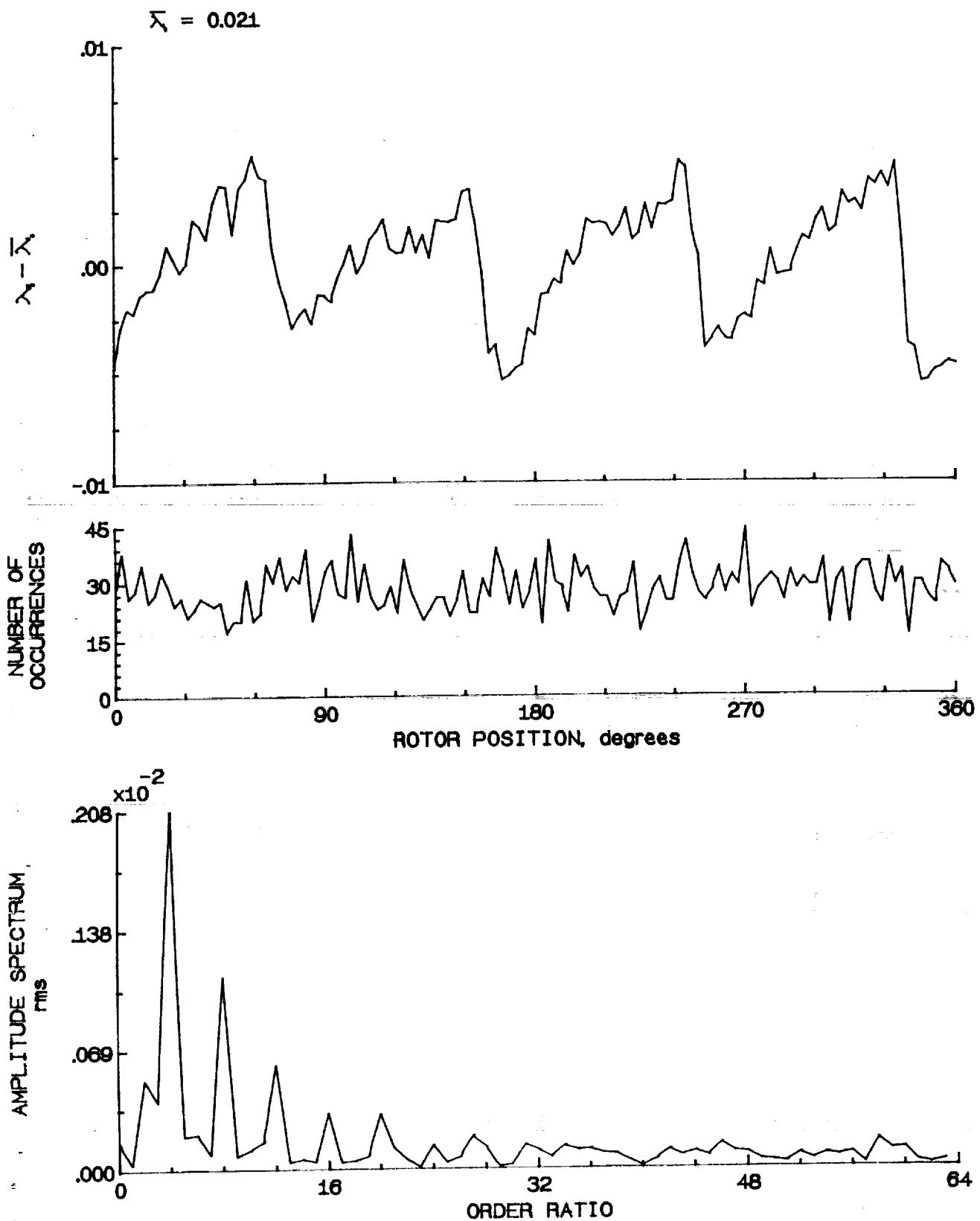


Figure 95.- Concluded.

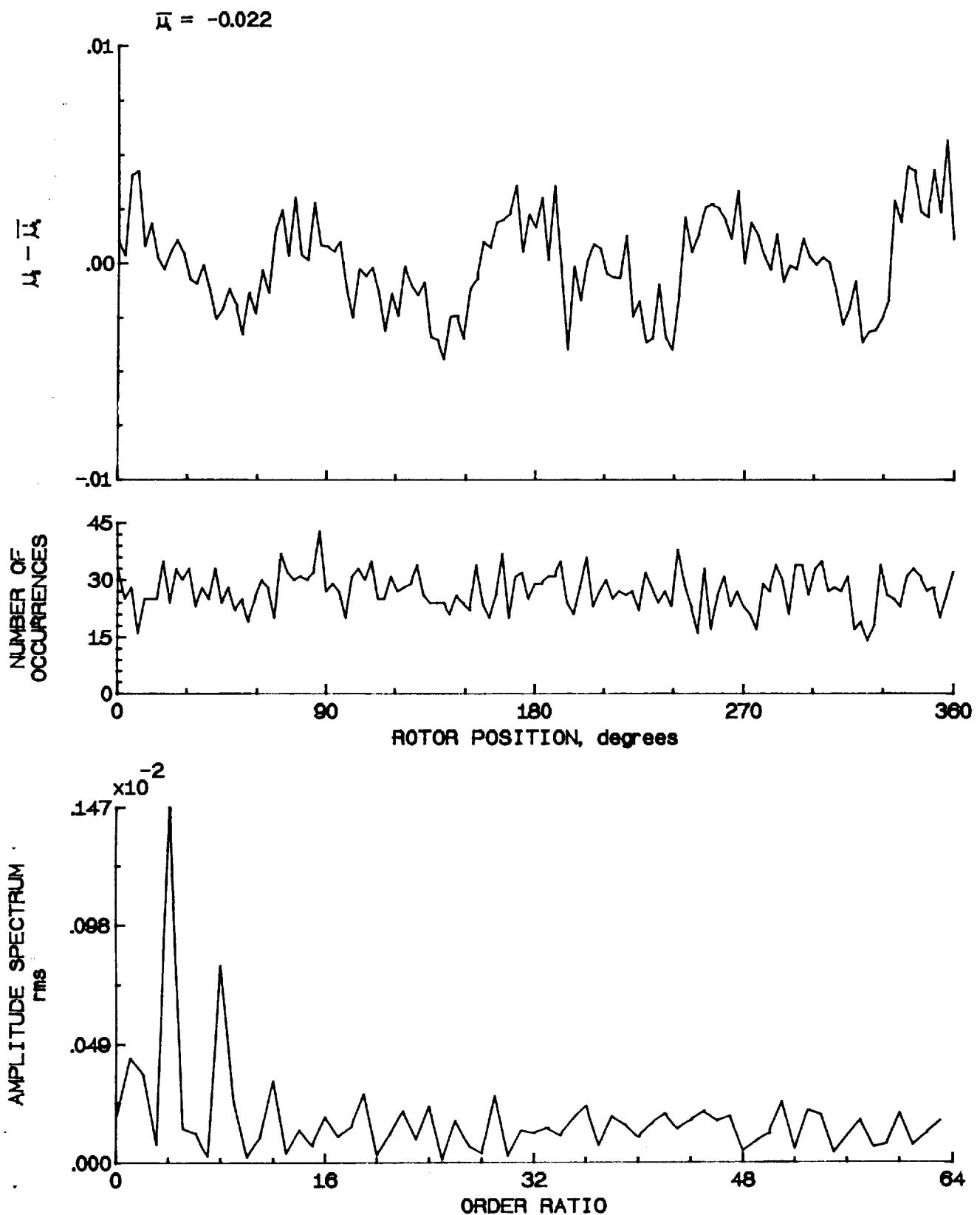


Figure 96.- Induced inflow velocity measured at 150 degrees and r/R of 0.75.

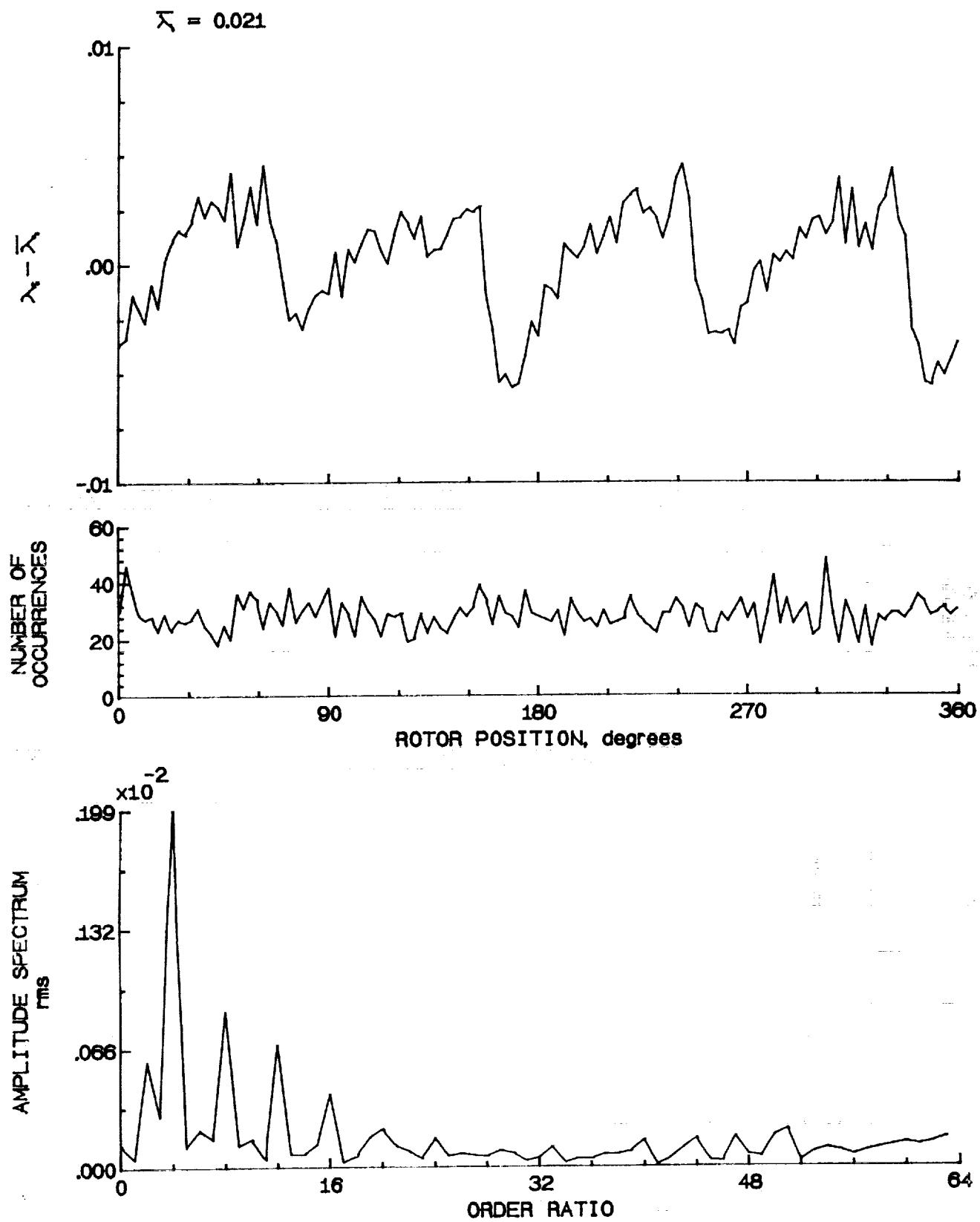


Figure 96.- Concluded.

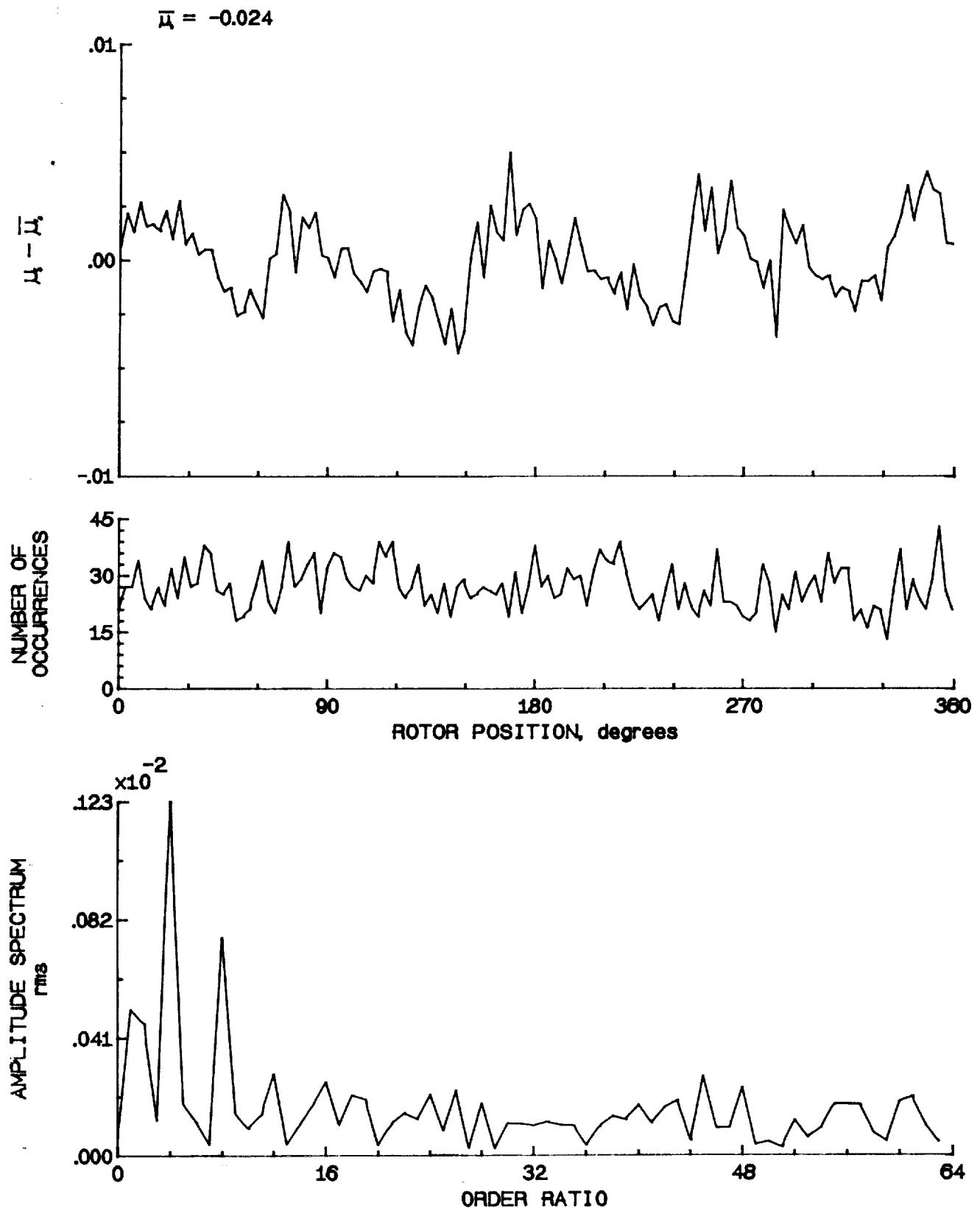


Figure 97.- Induced inflow velocity measured at 150 degrees and r/R of 0.81.

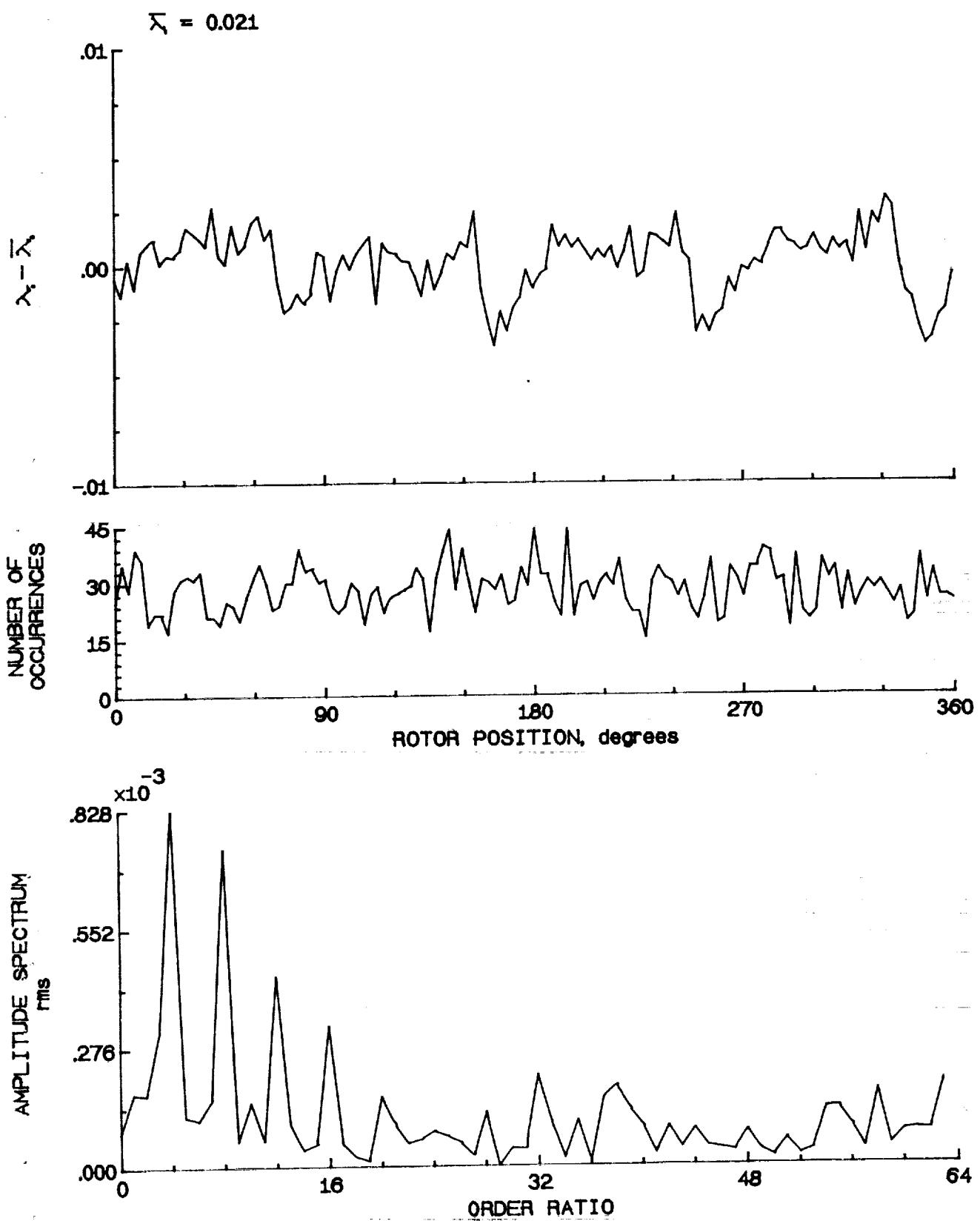


Figure 97.- Concluded.

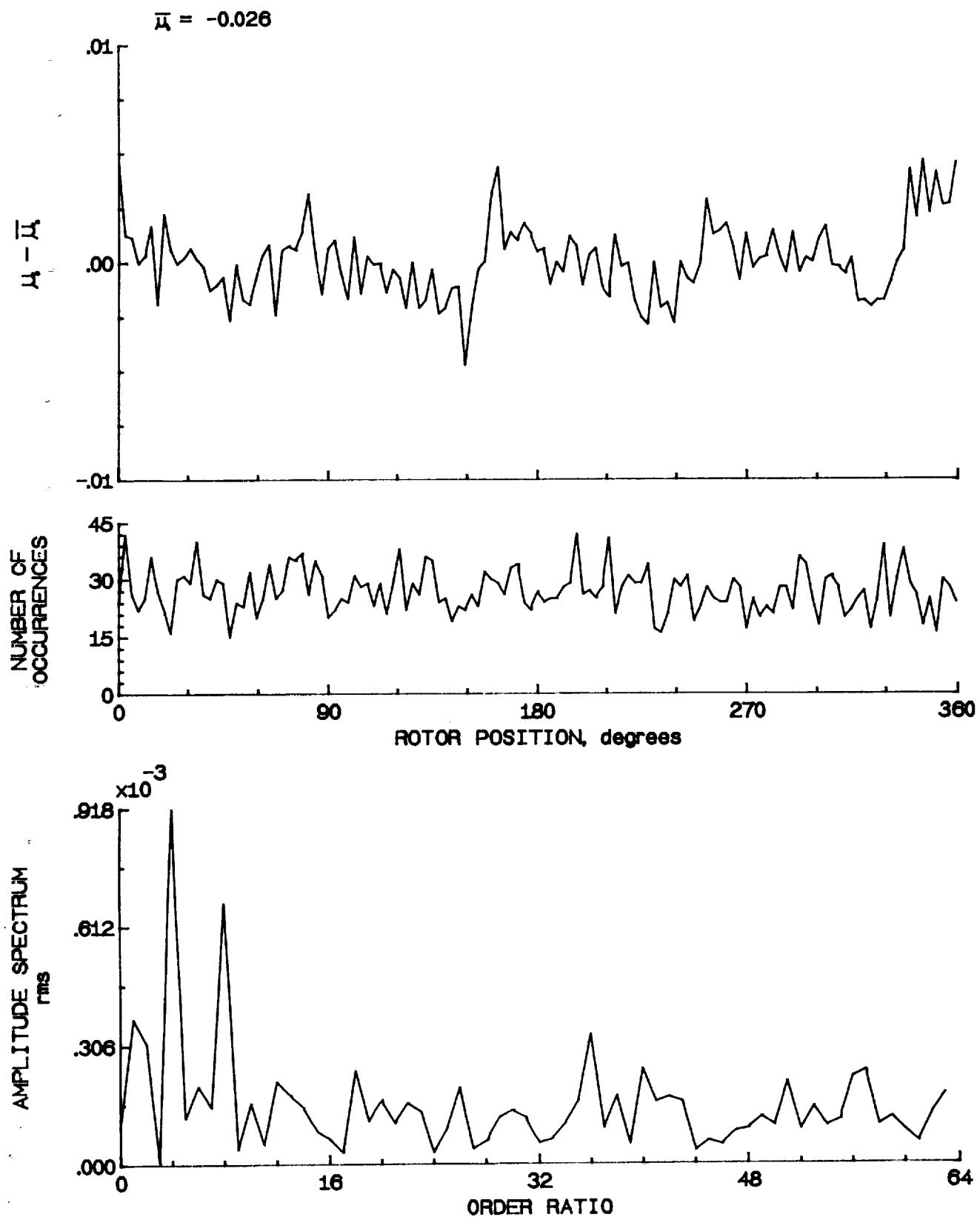


Figure 98.- Induced inflow velocity measured at 150 degrees and r/R of 0.86.

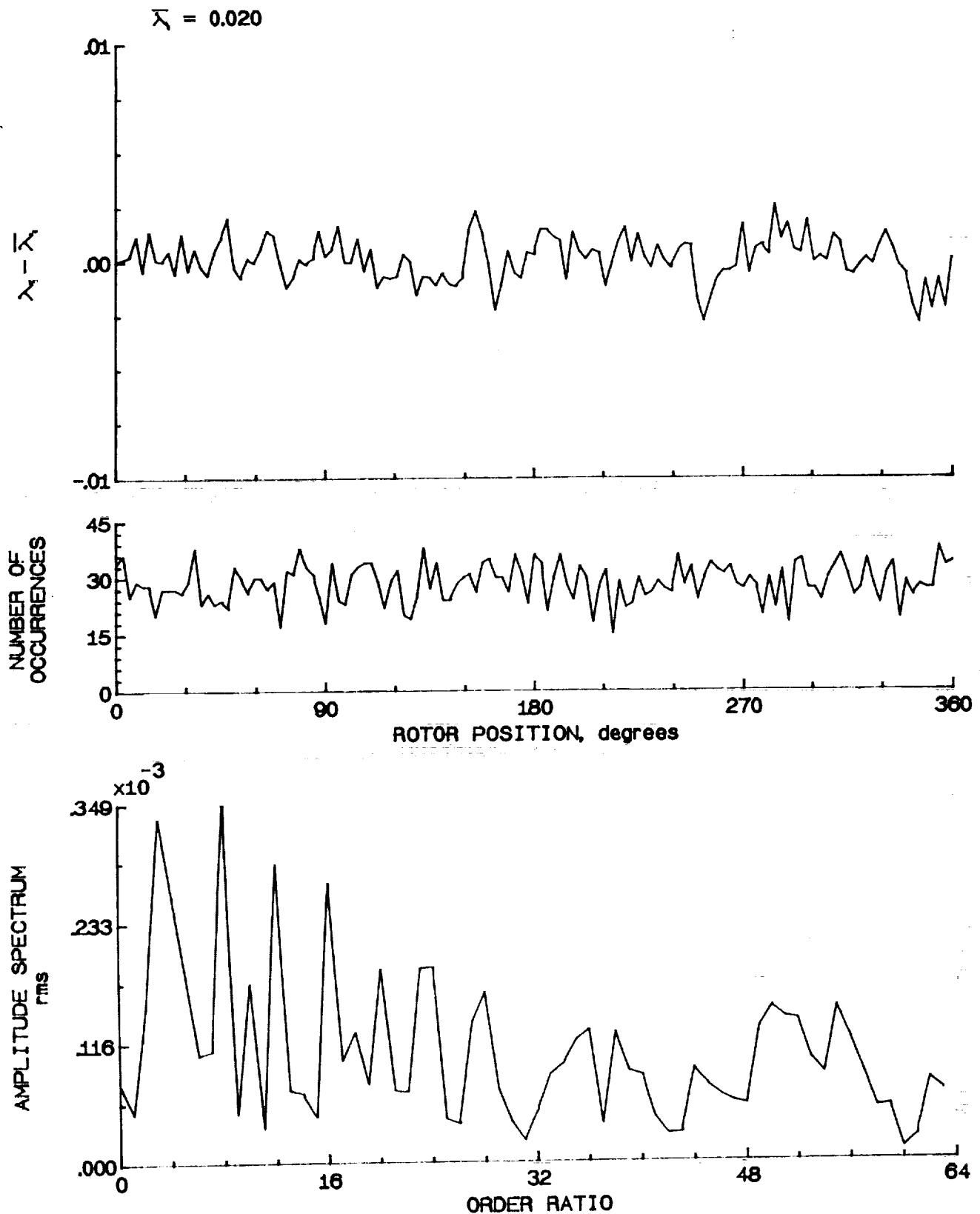


Figure 98.- Concluded

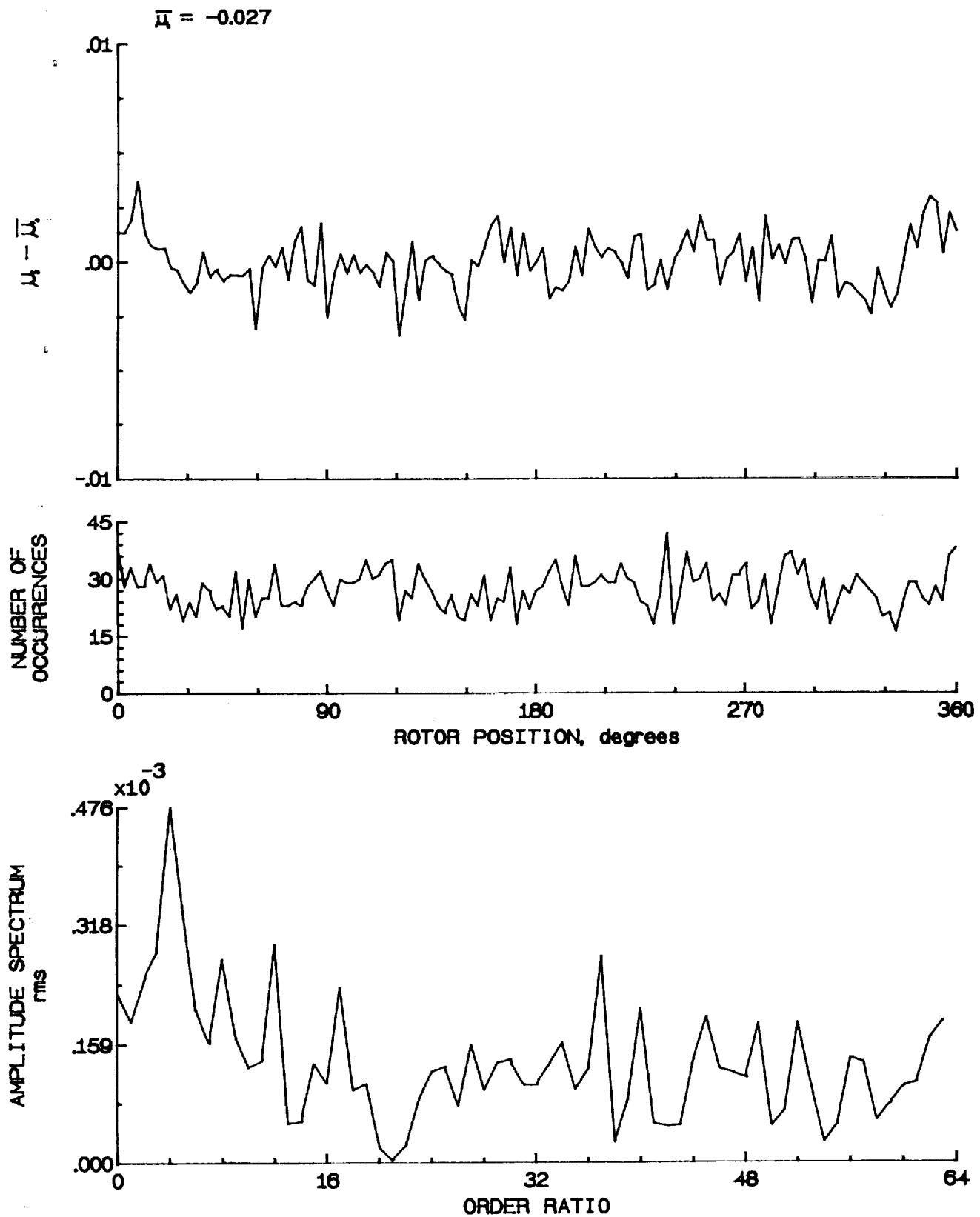


Figure 99.- Induced inflow velocity measured at 150 degrees and r/R of 0.90.

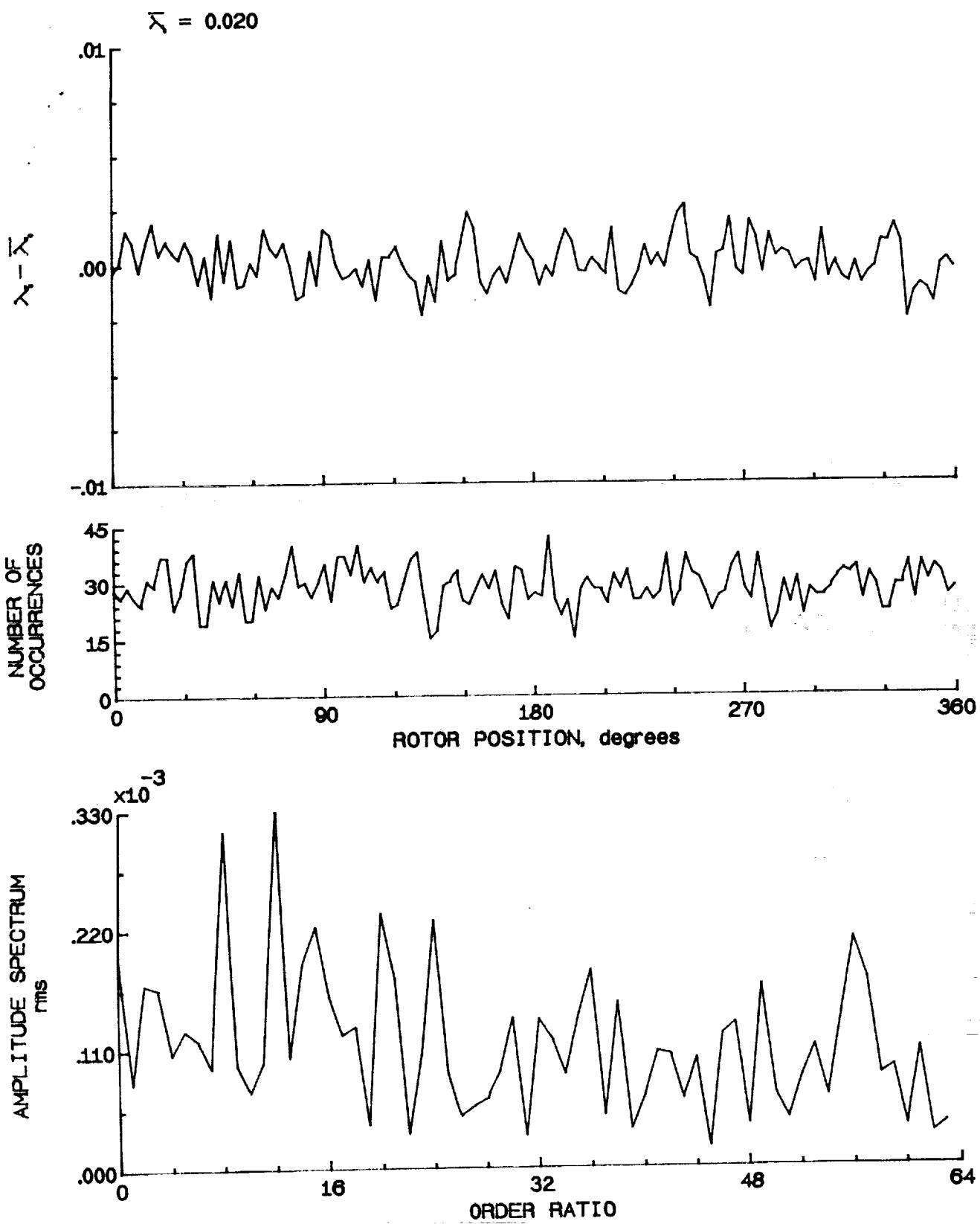


Figure 99.- Concluded.

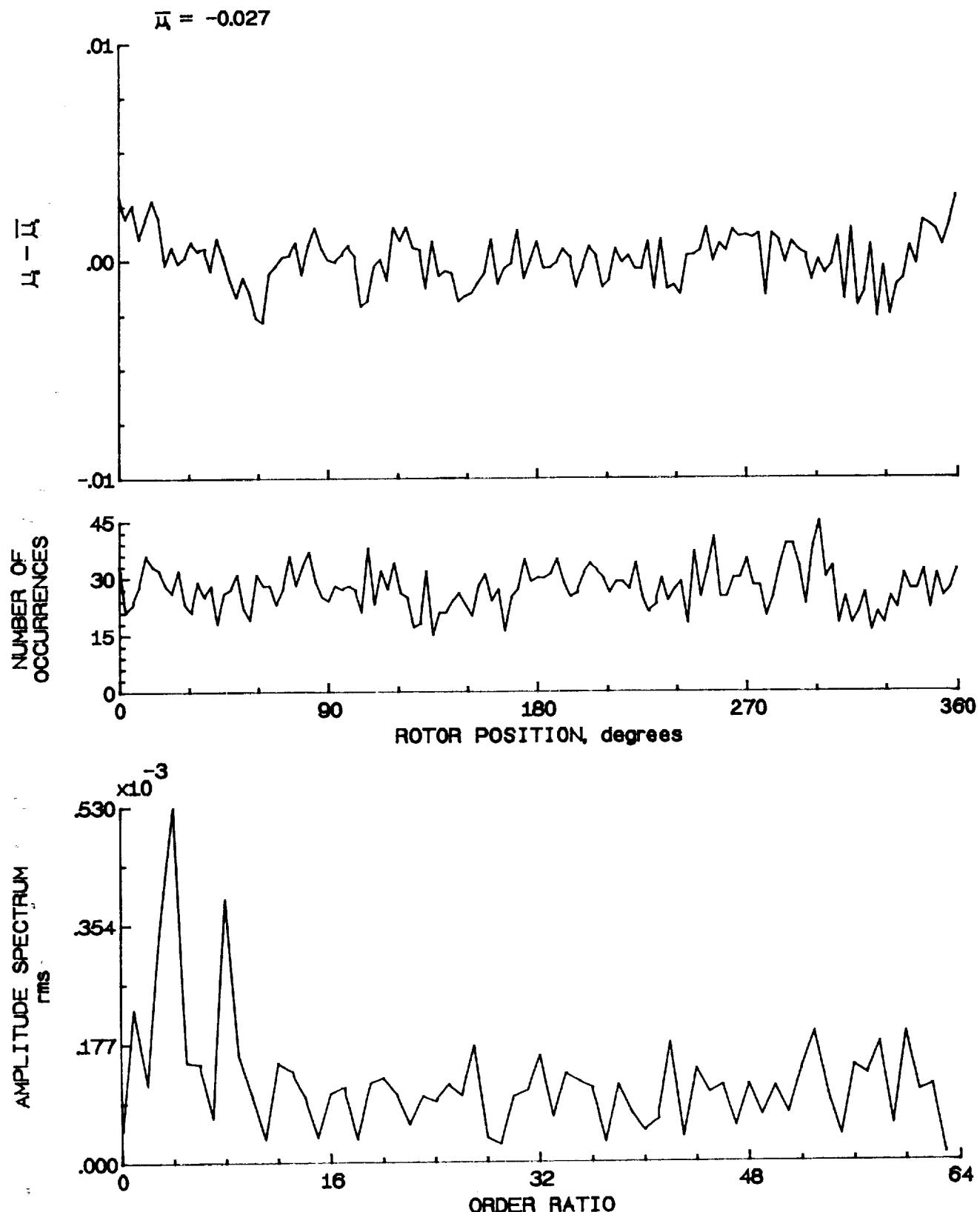


Figure 100.- Induced inflow velocity measured at 150 degrees and r/R of 0.94.

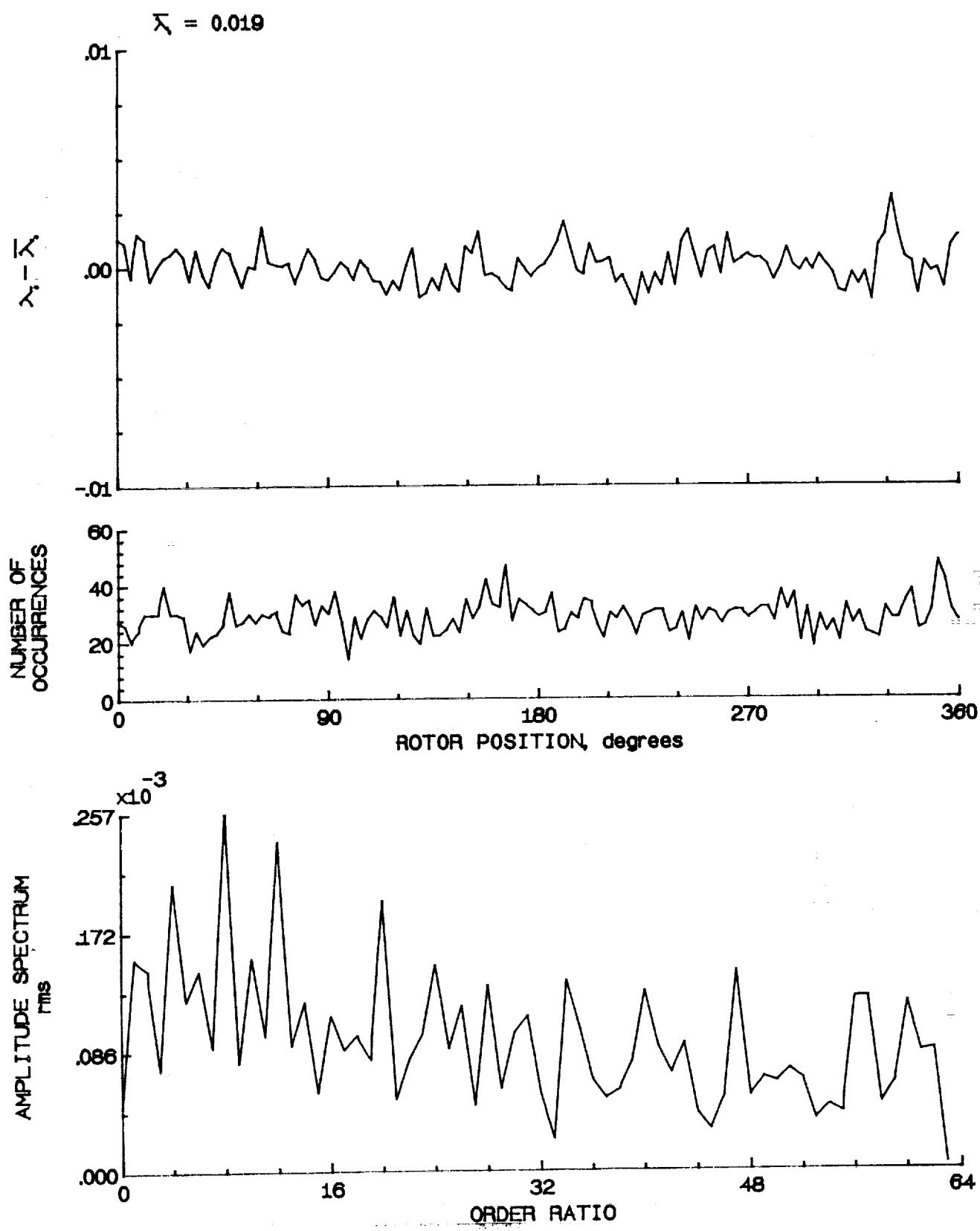


Figure 100.- Concluded.

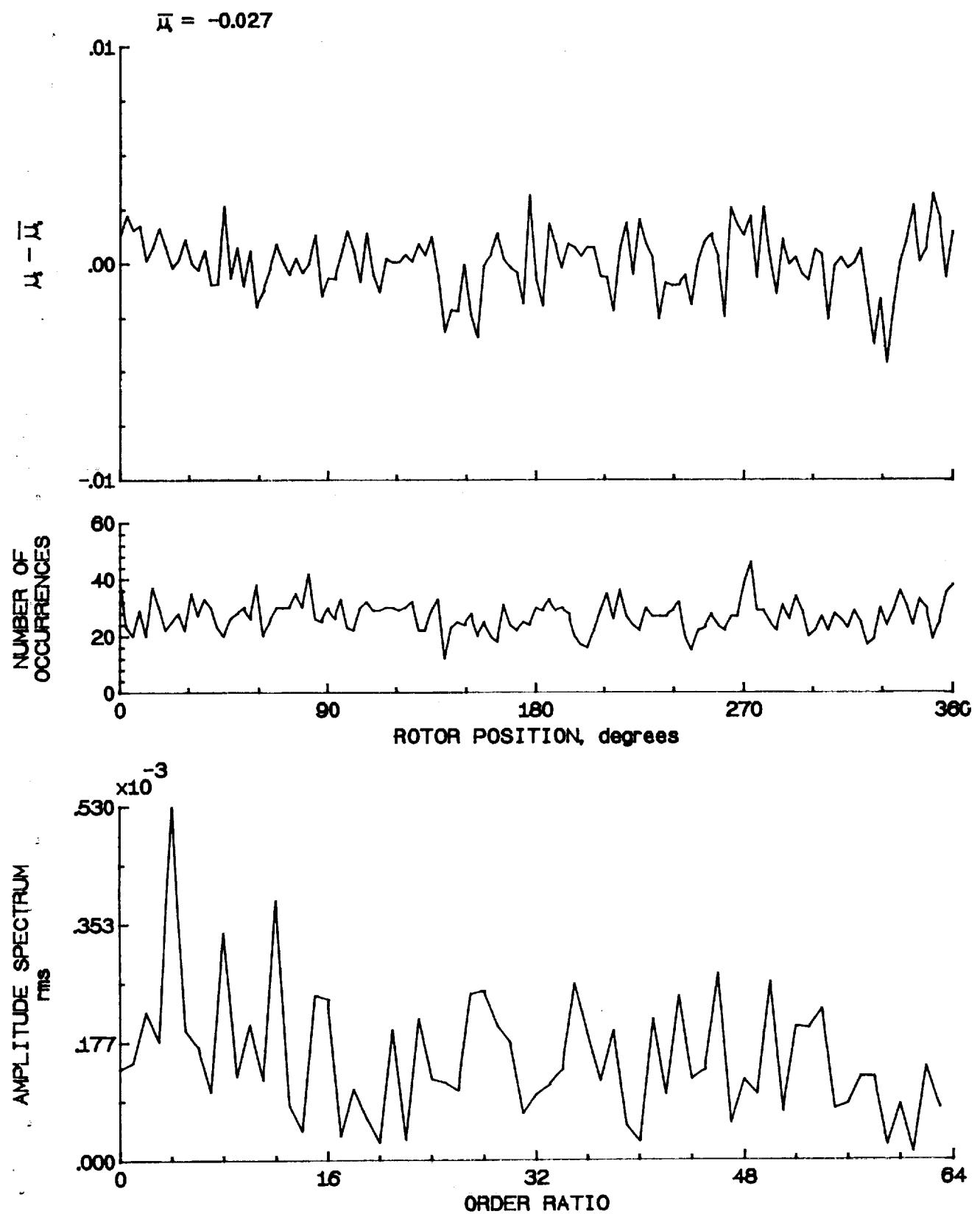


Figure 101. Induced inflow velocity measured at 150 degrees and r/R of 0.96.

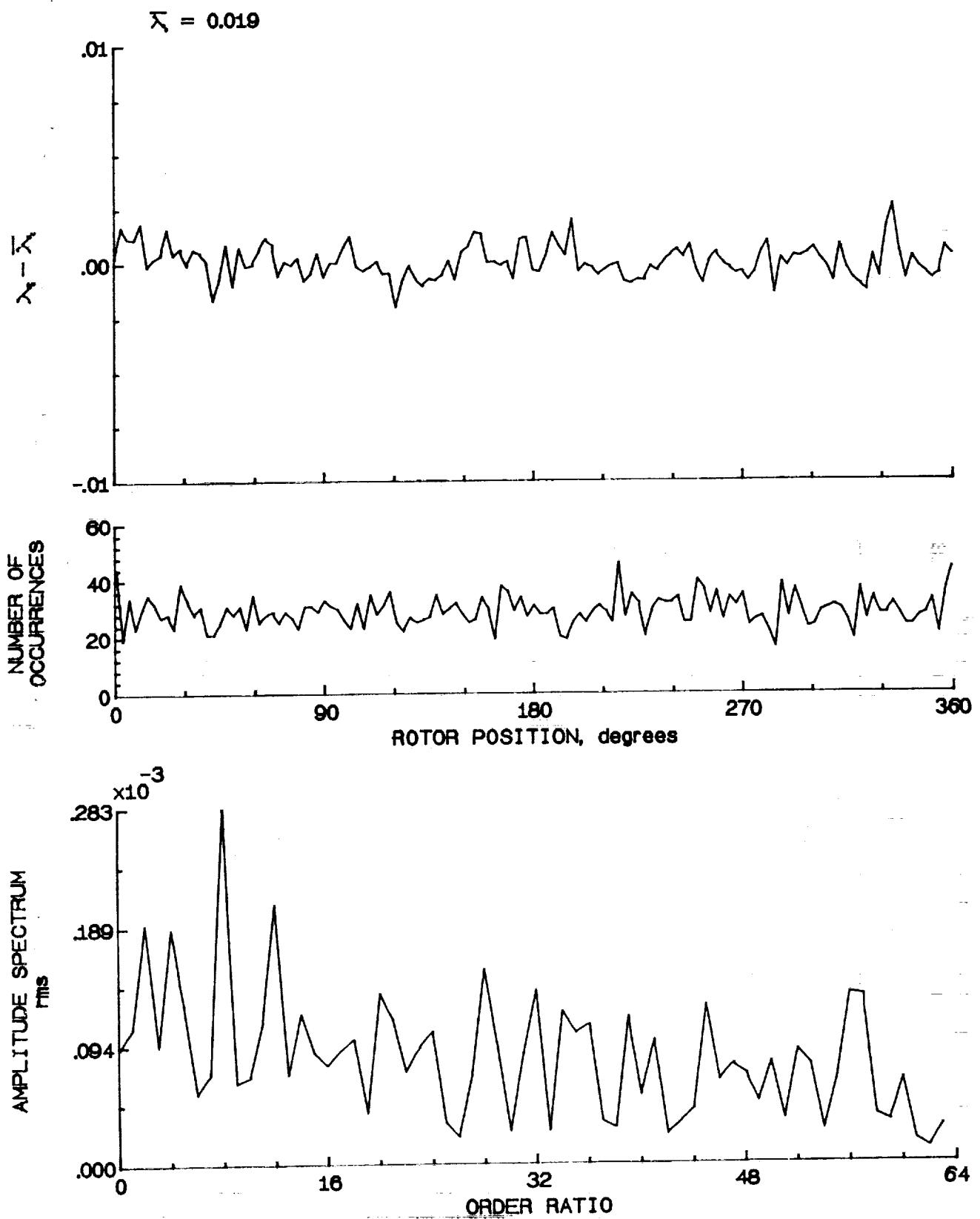


Figure 101.- Concluded.

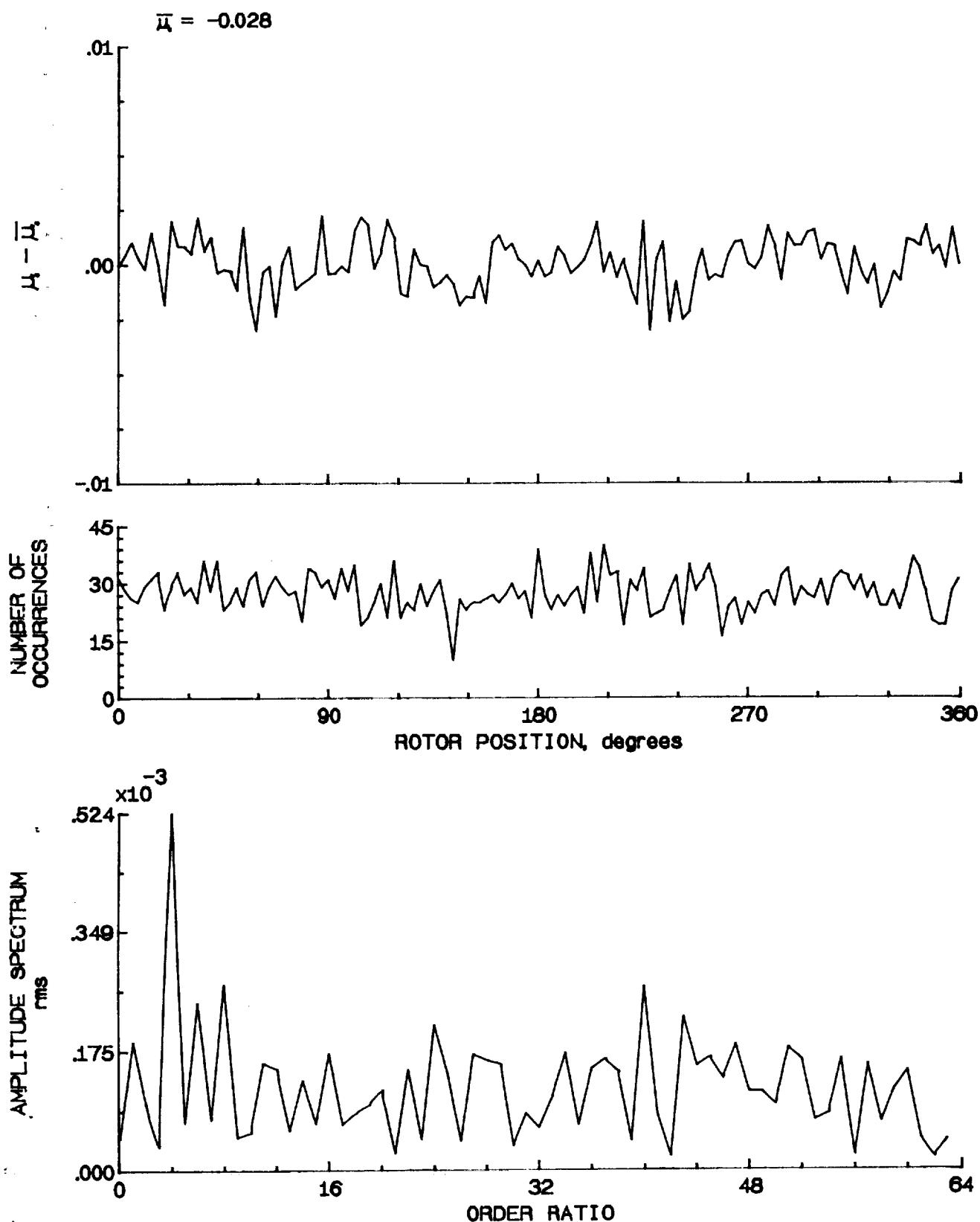


Figure 102.- Induced inflow velocity measured at 150 degrees and r/R of 1.00.

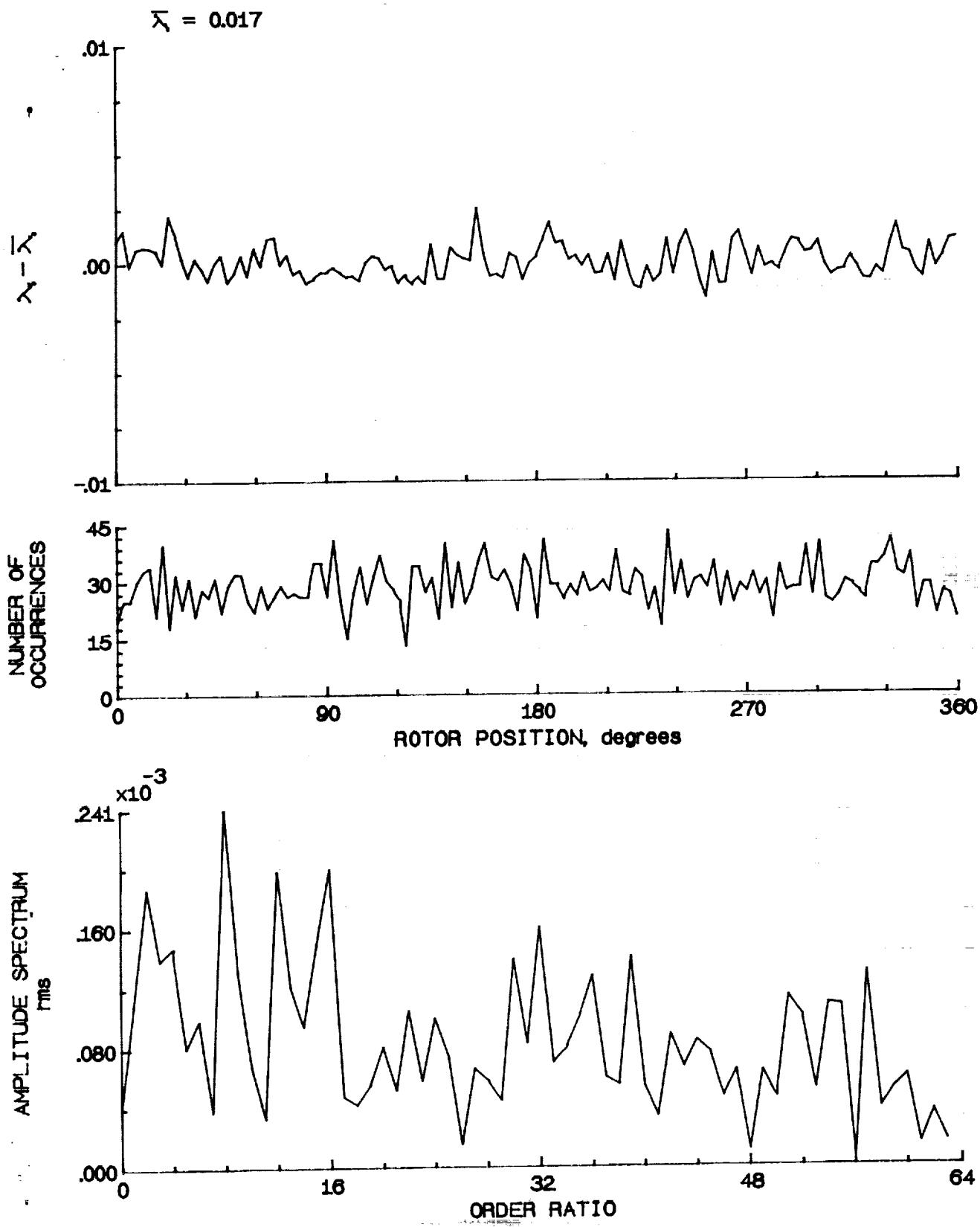


Figure 102.- Concluded.

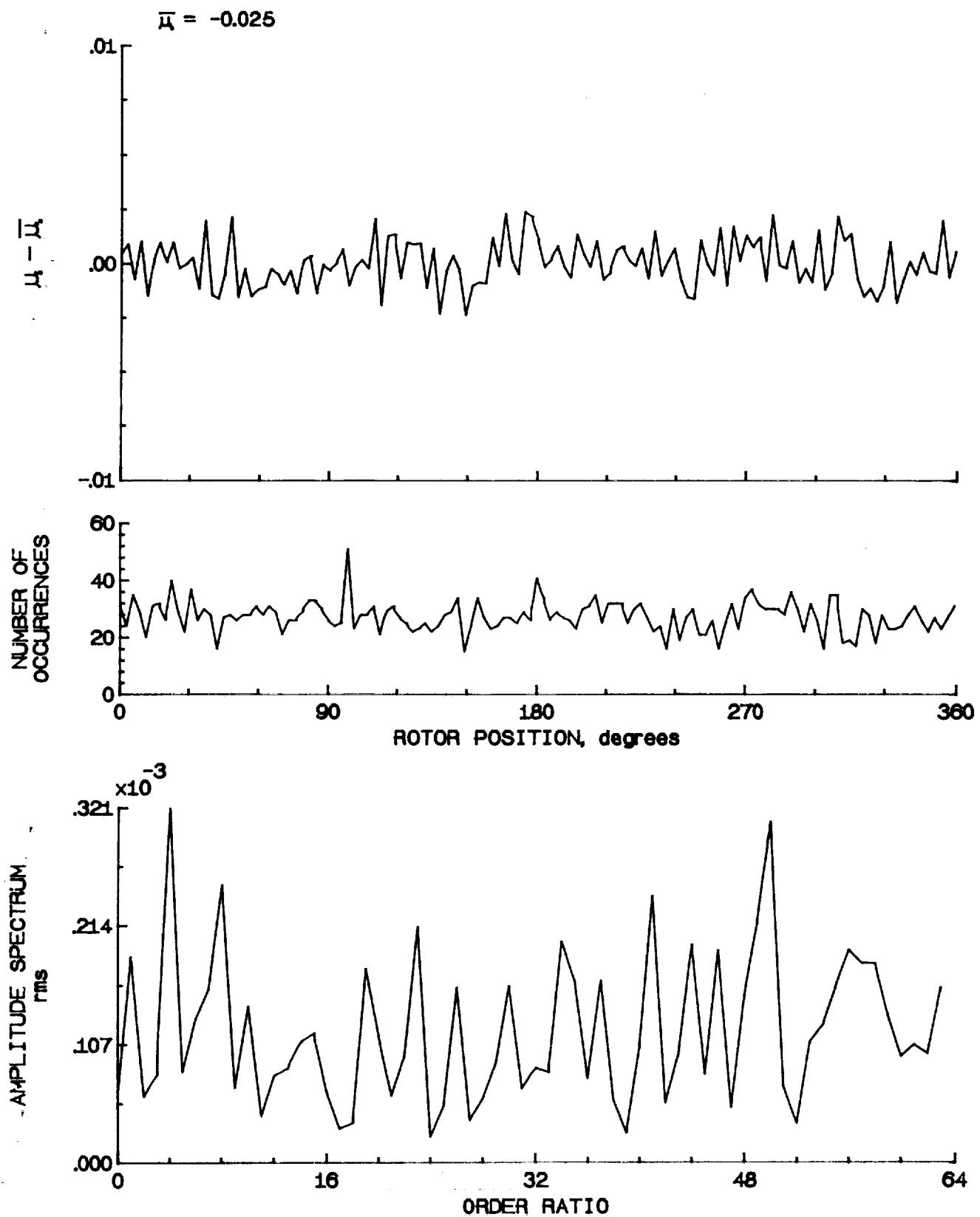


Figure 103.- Induced inflow velocity measured at 150 degrees and r/R of 1.10.

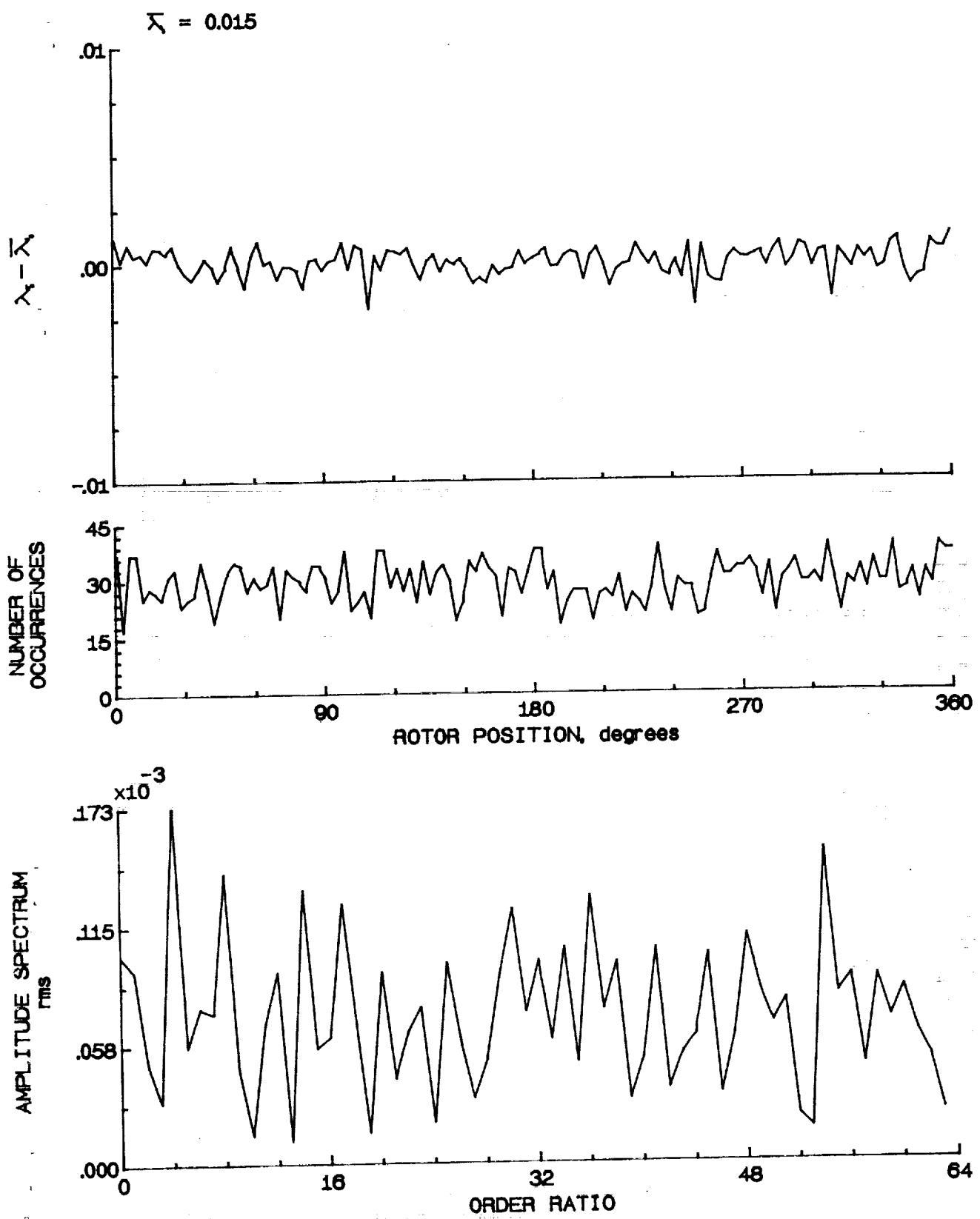


Figure 103.- Concluded

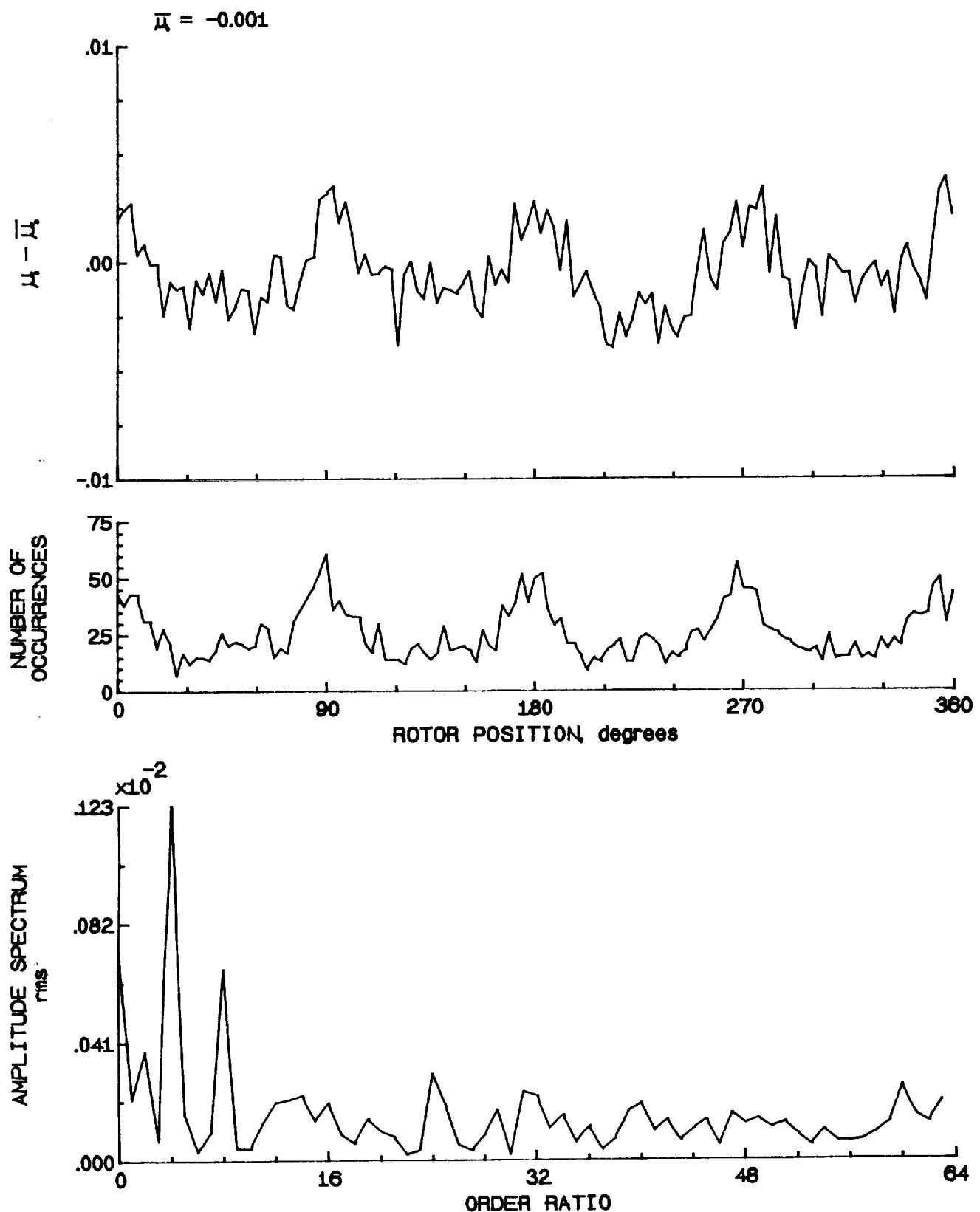


Figure 104.- Induced inflow velocity measured at 180 degrees and r/R of 0.20.

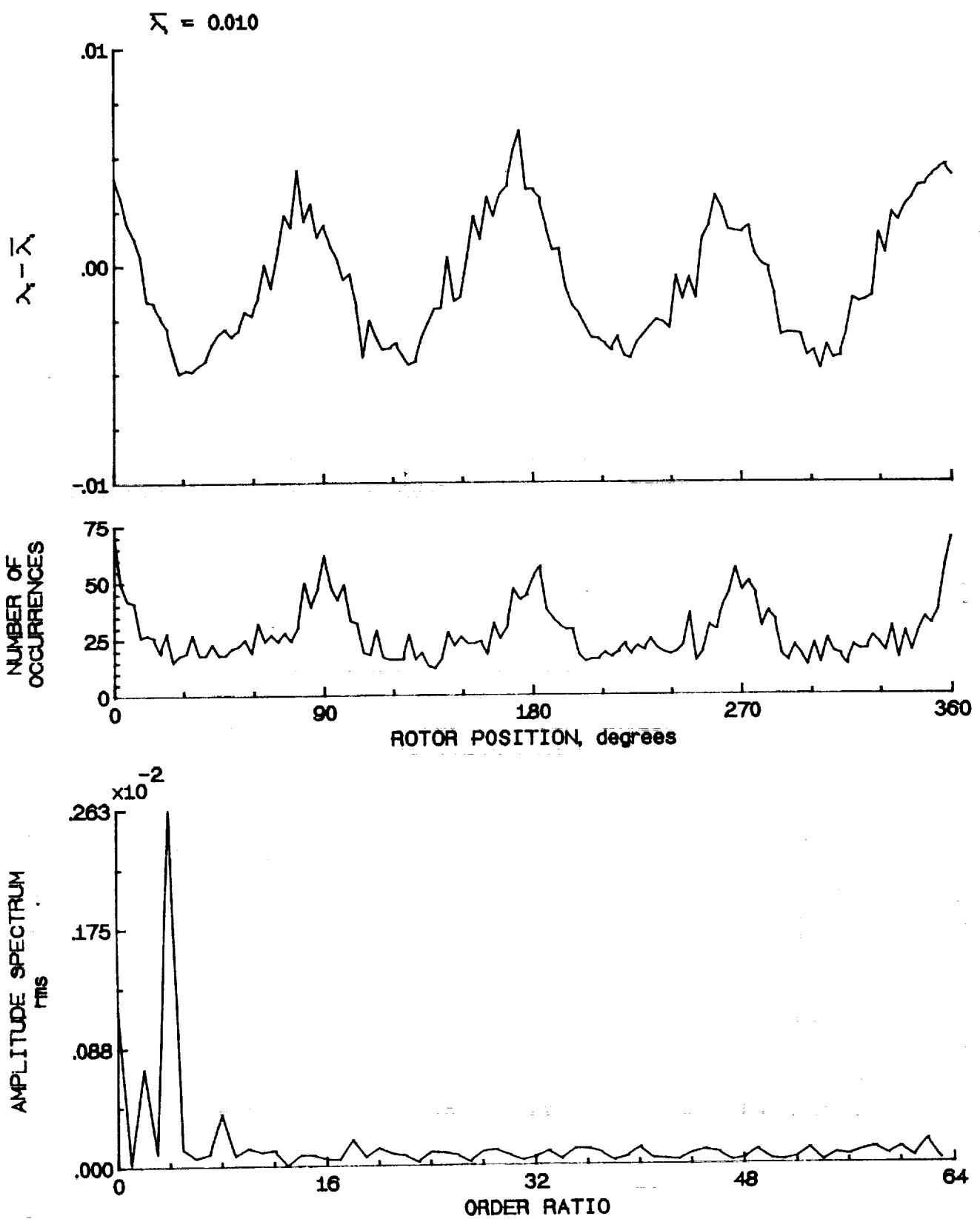


Figure 104.- Concluded.

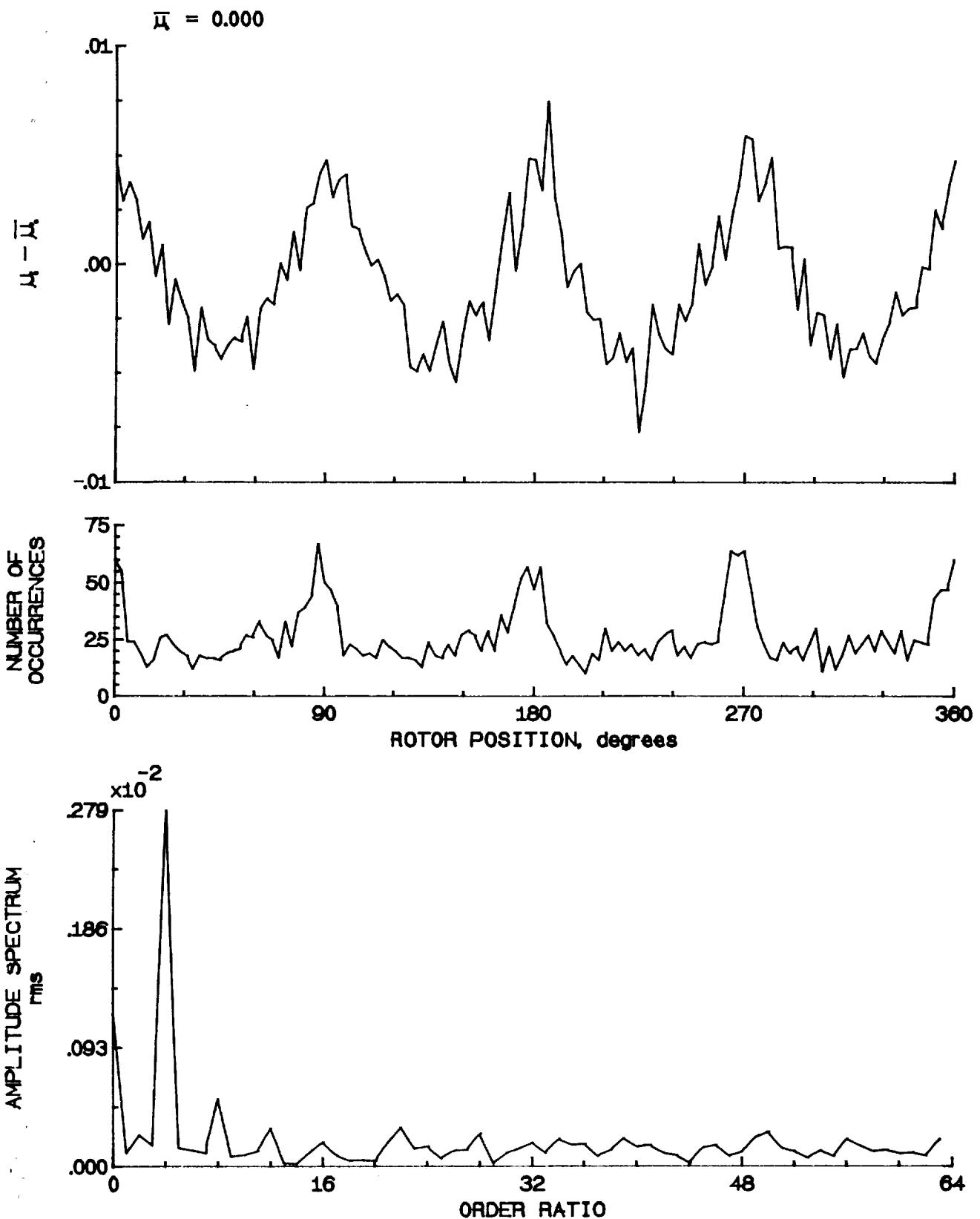


Figure 105.- Induced inflow velocity measured at 180 degrees and r/R of 0.32.

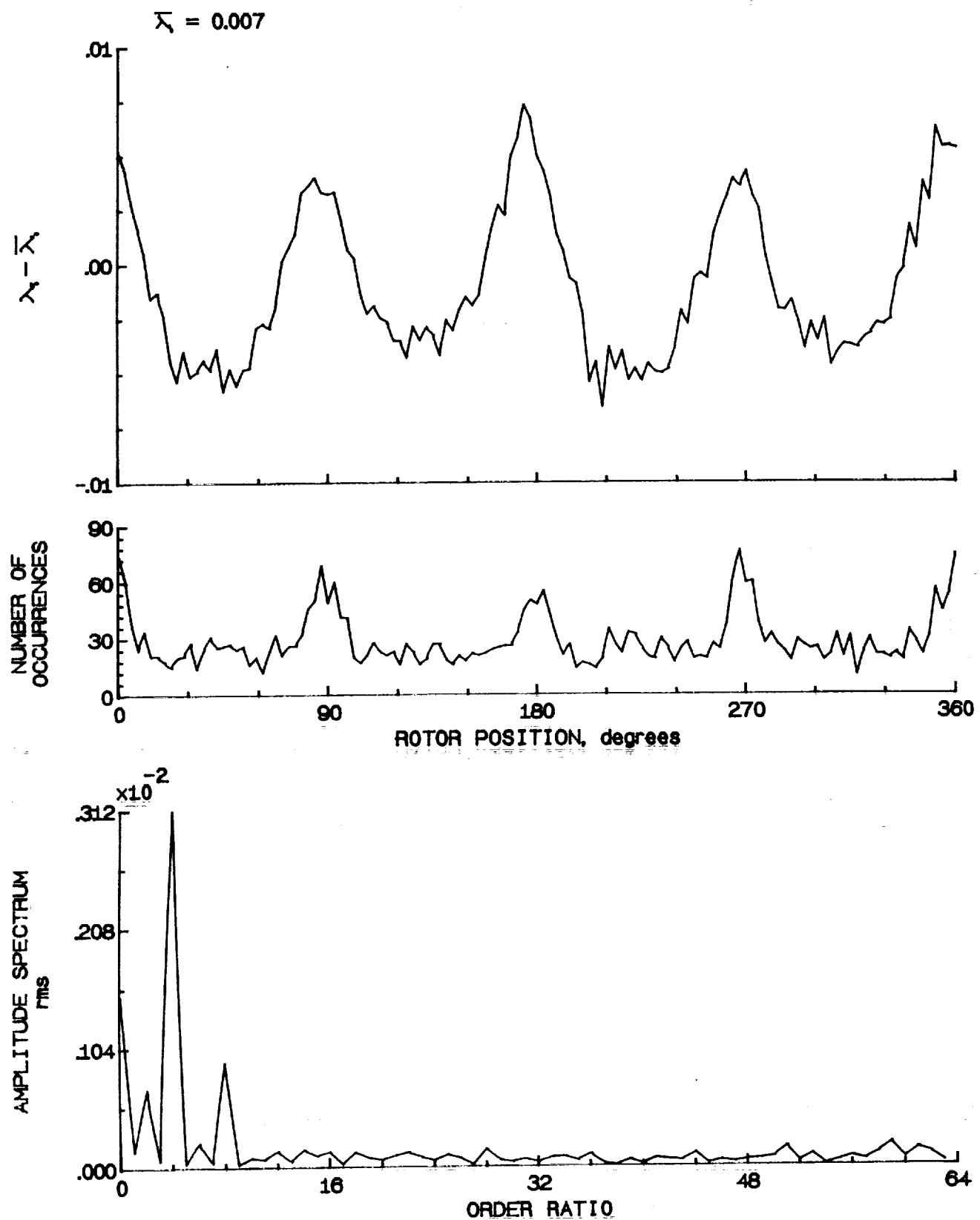


Figure 105.- Concluded.

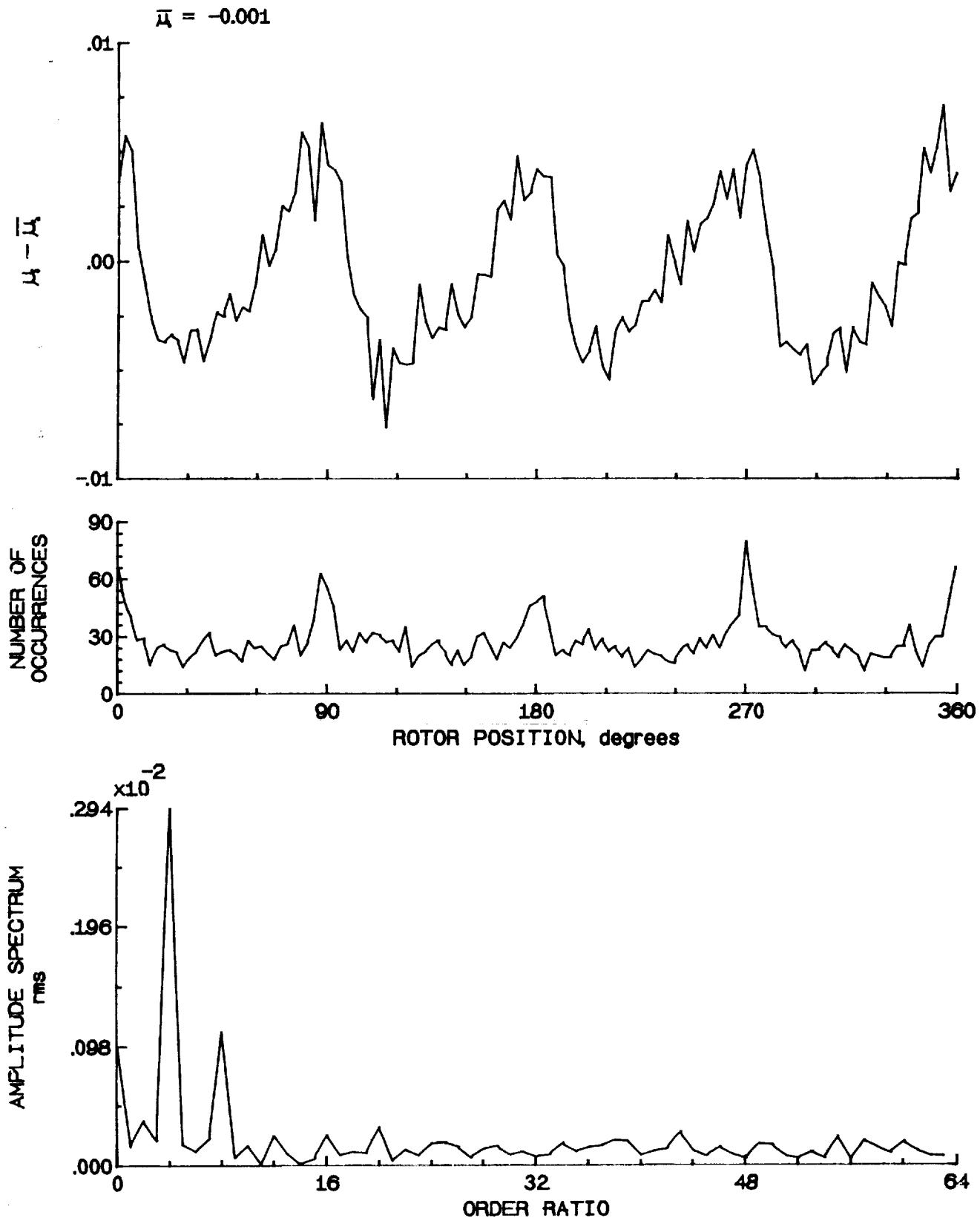


Figure 106.- Induced inflow velocity measured at 180 degrees and r/R of 0.50.

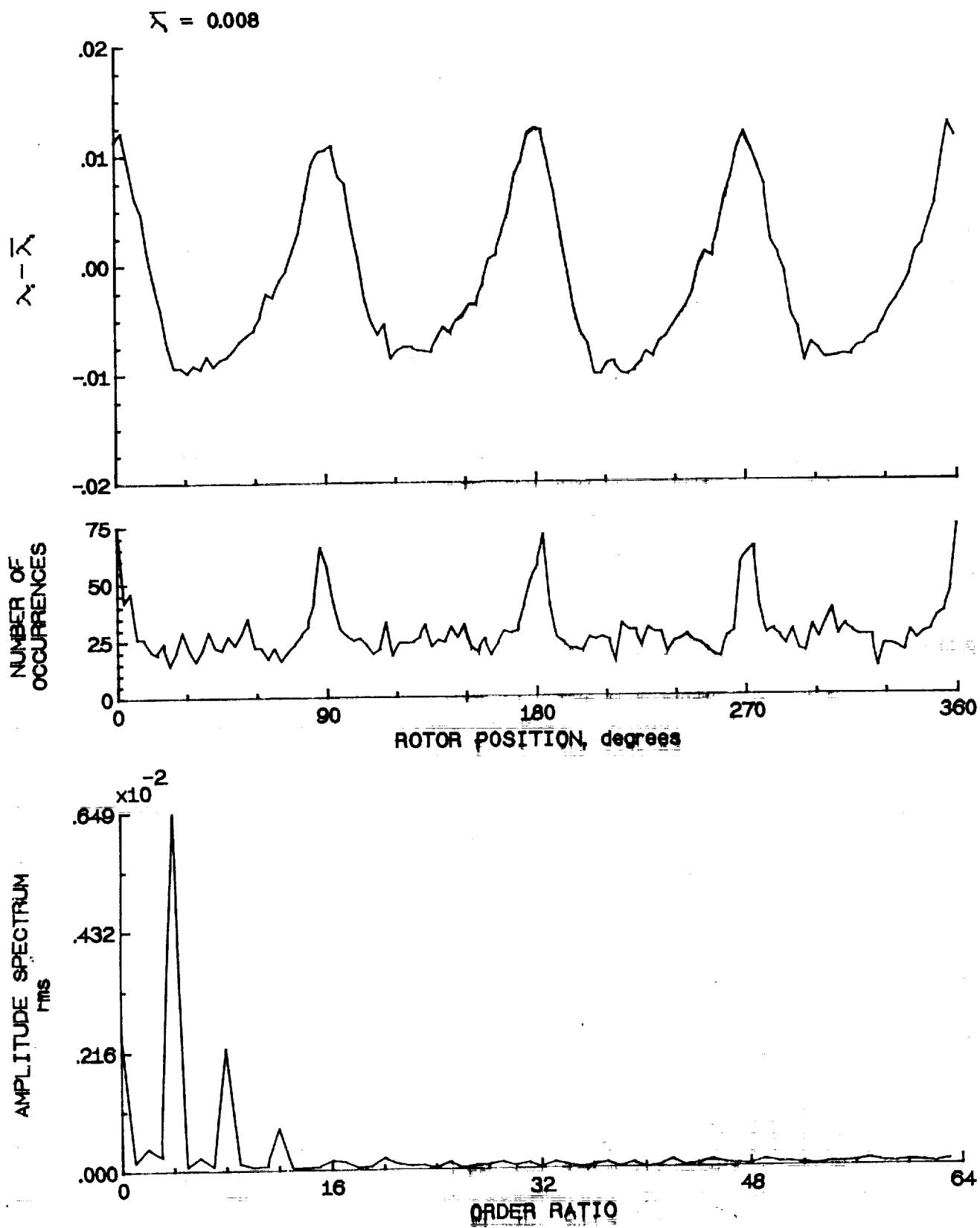


Figure 106.- Concluded.

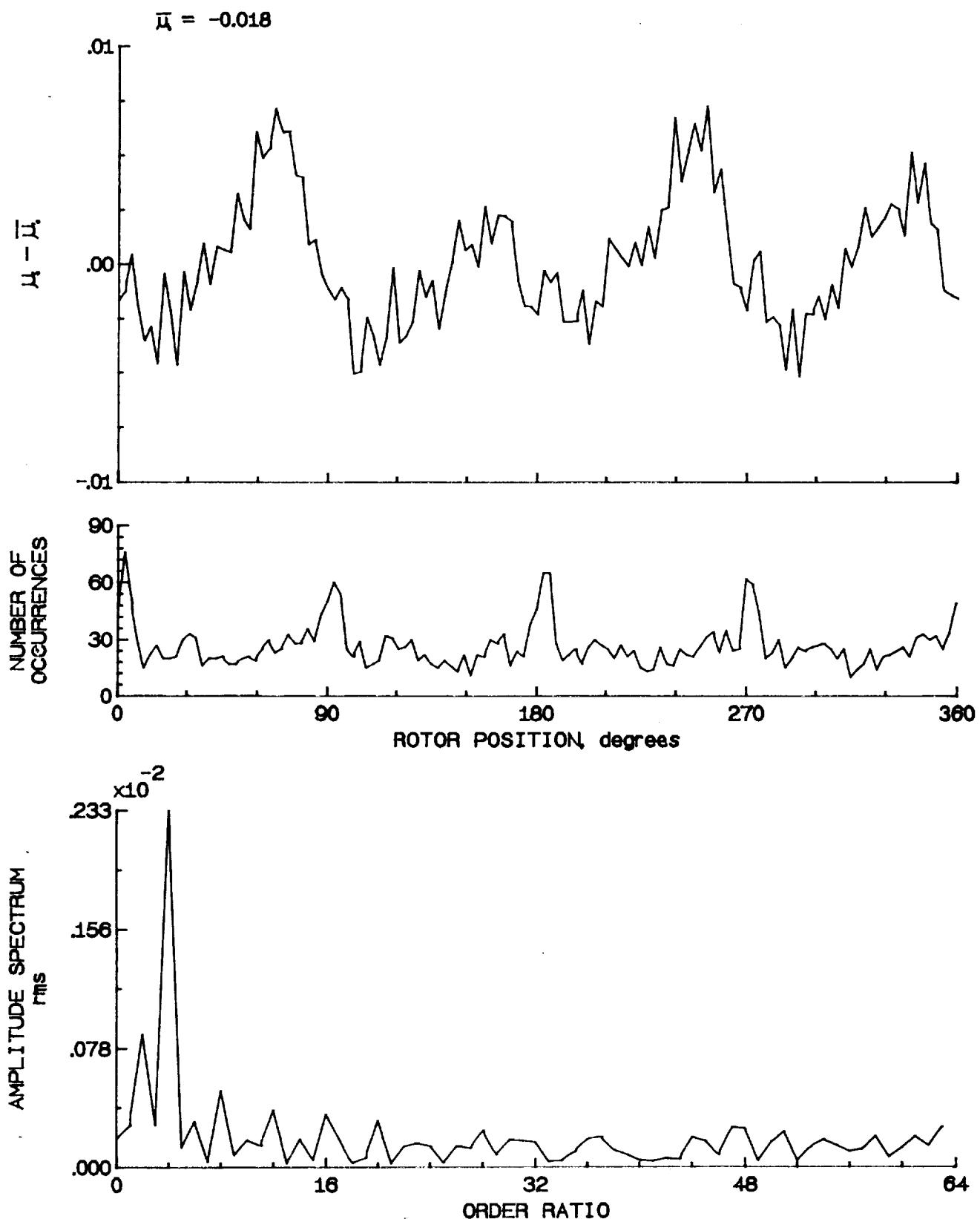


Figure 107.- Induced inflow velocity measured at 180 degrees and r/R of 0.58.

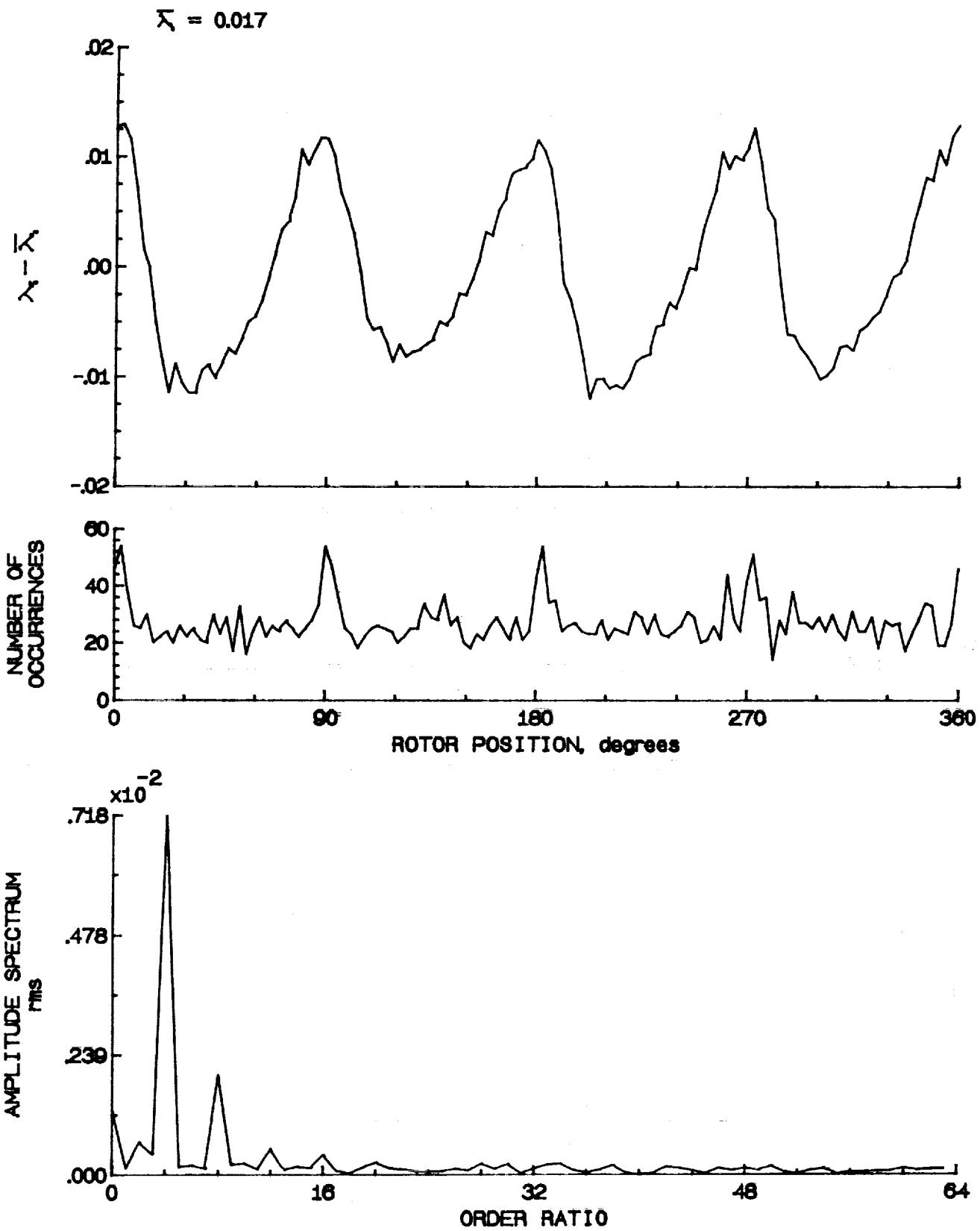


Figure 107.- Concluded.

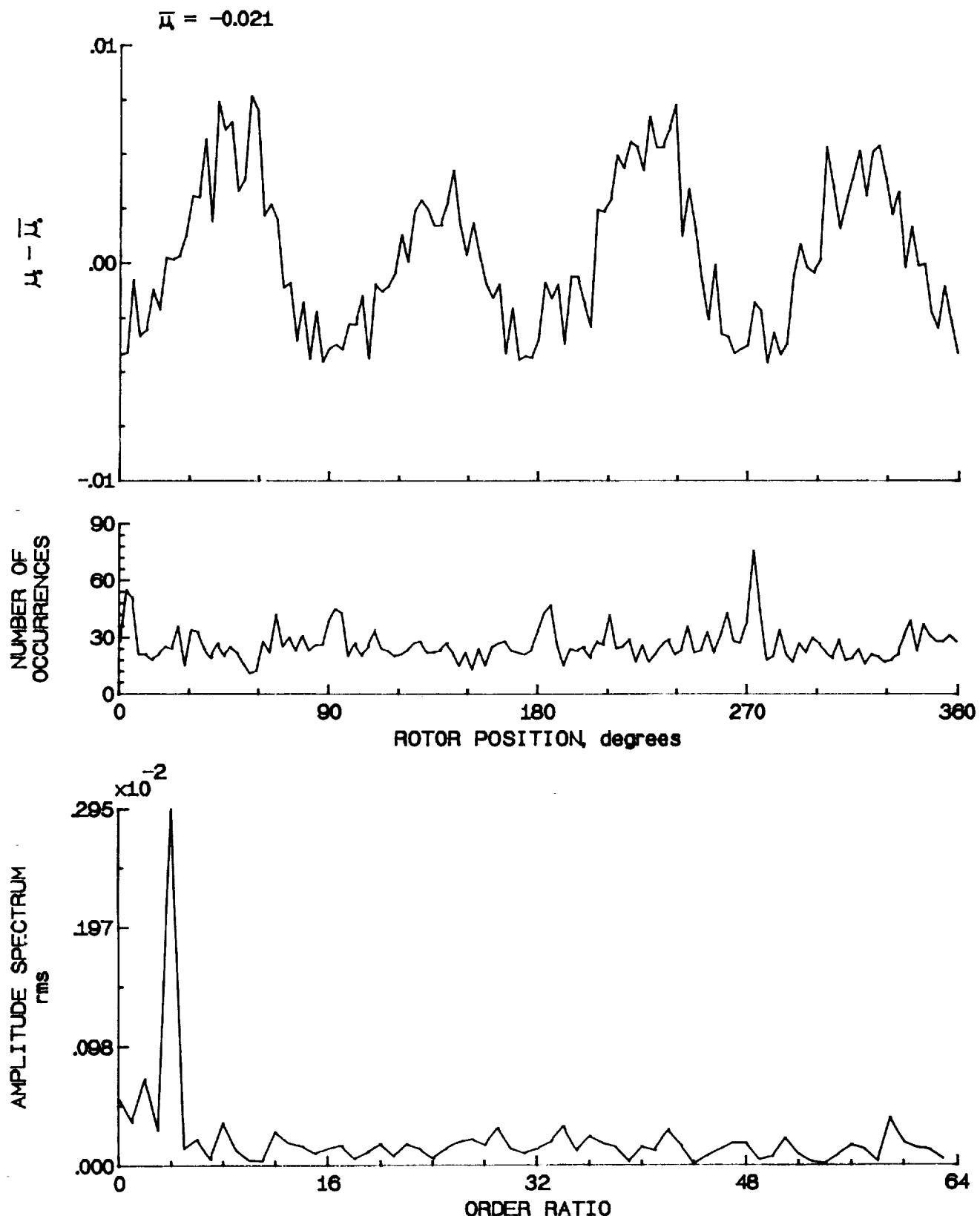


Figure 108.- Induced inflow velocity measured at 180 degrees and r/R of 0.69.

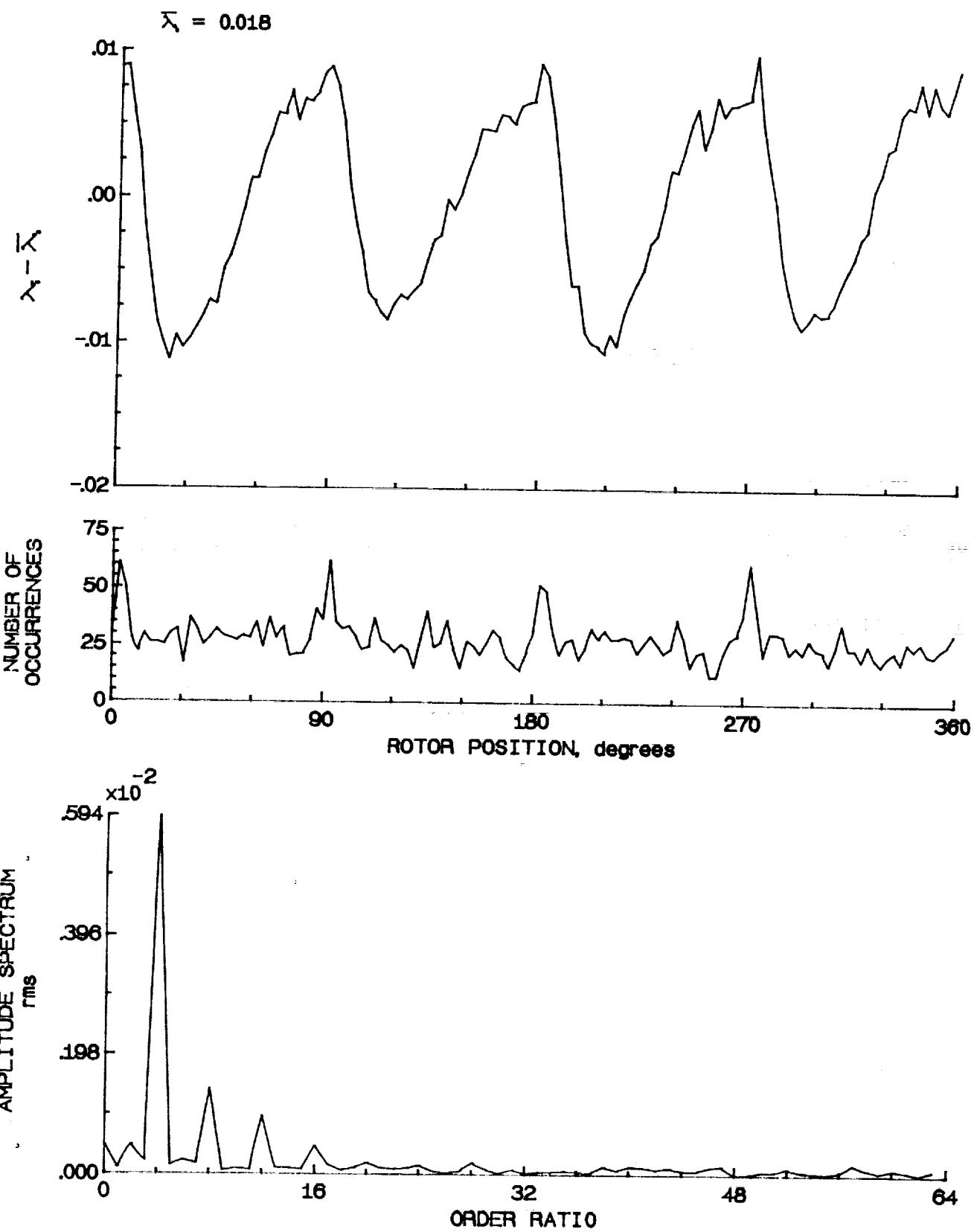


Figure 108.- Concluded.

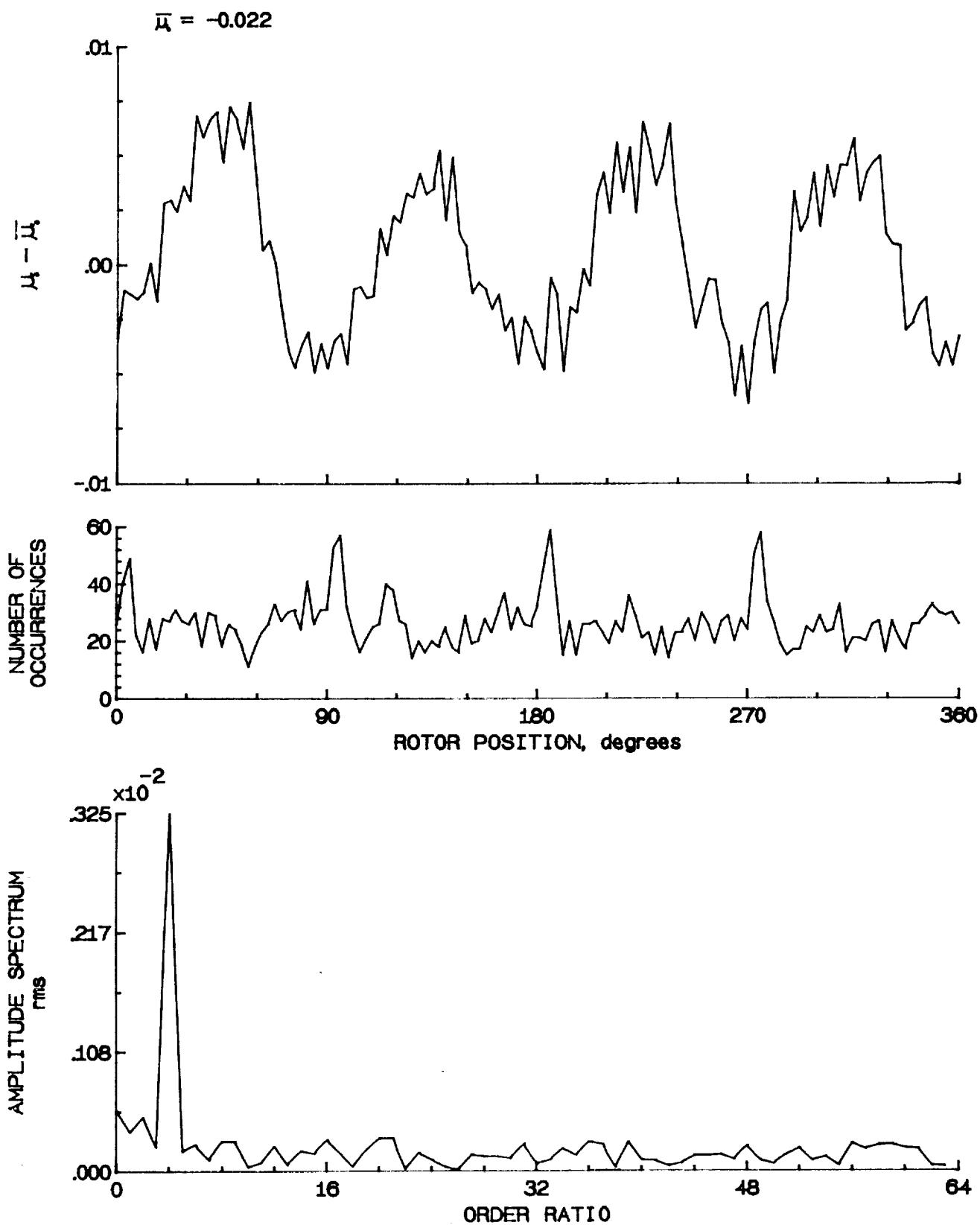


Figure 109.- Induced inflow velocity measured at 180 degrees and r/R of 0.73.

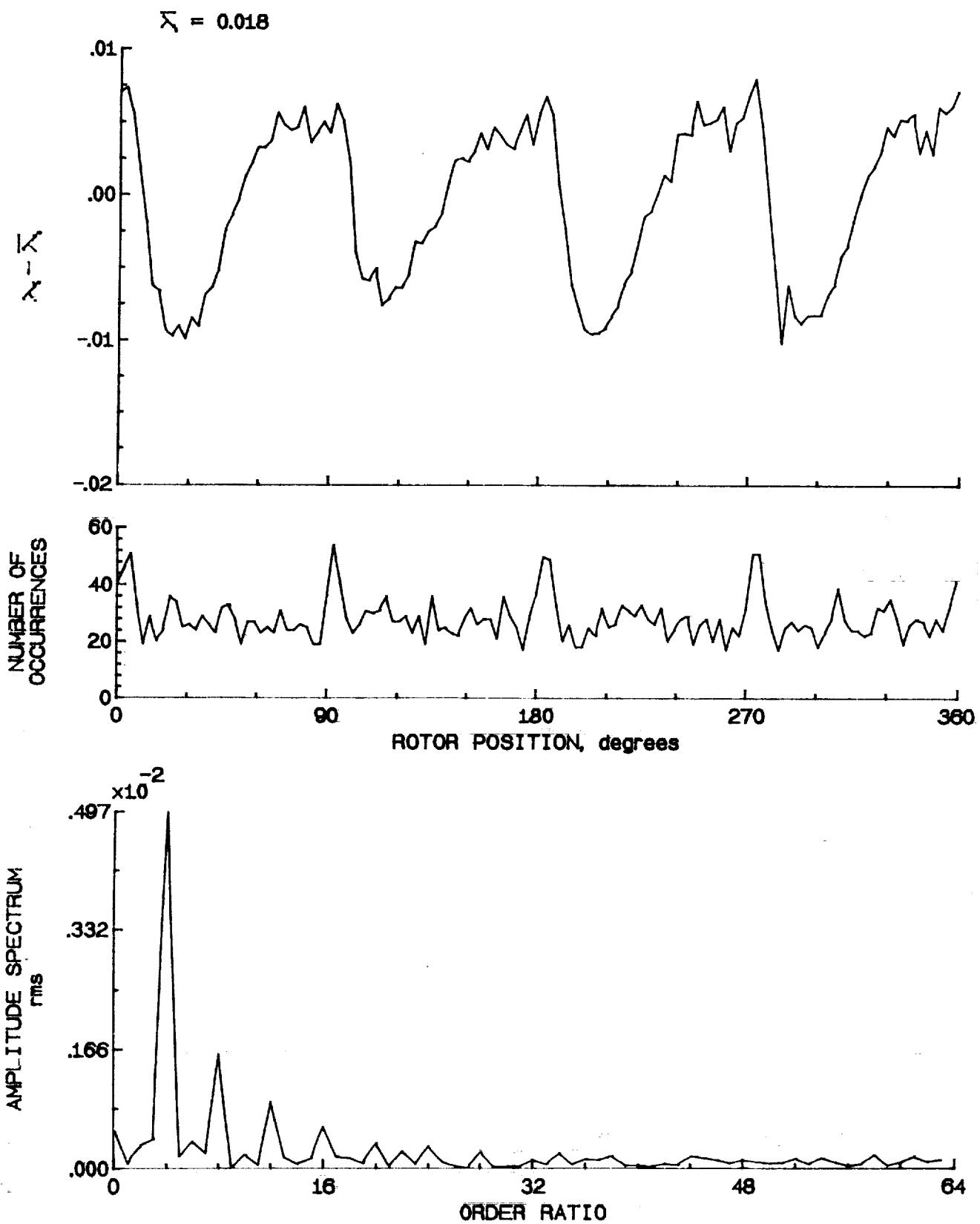


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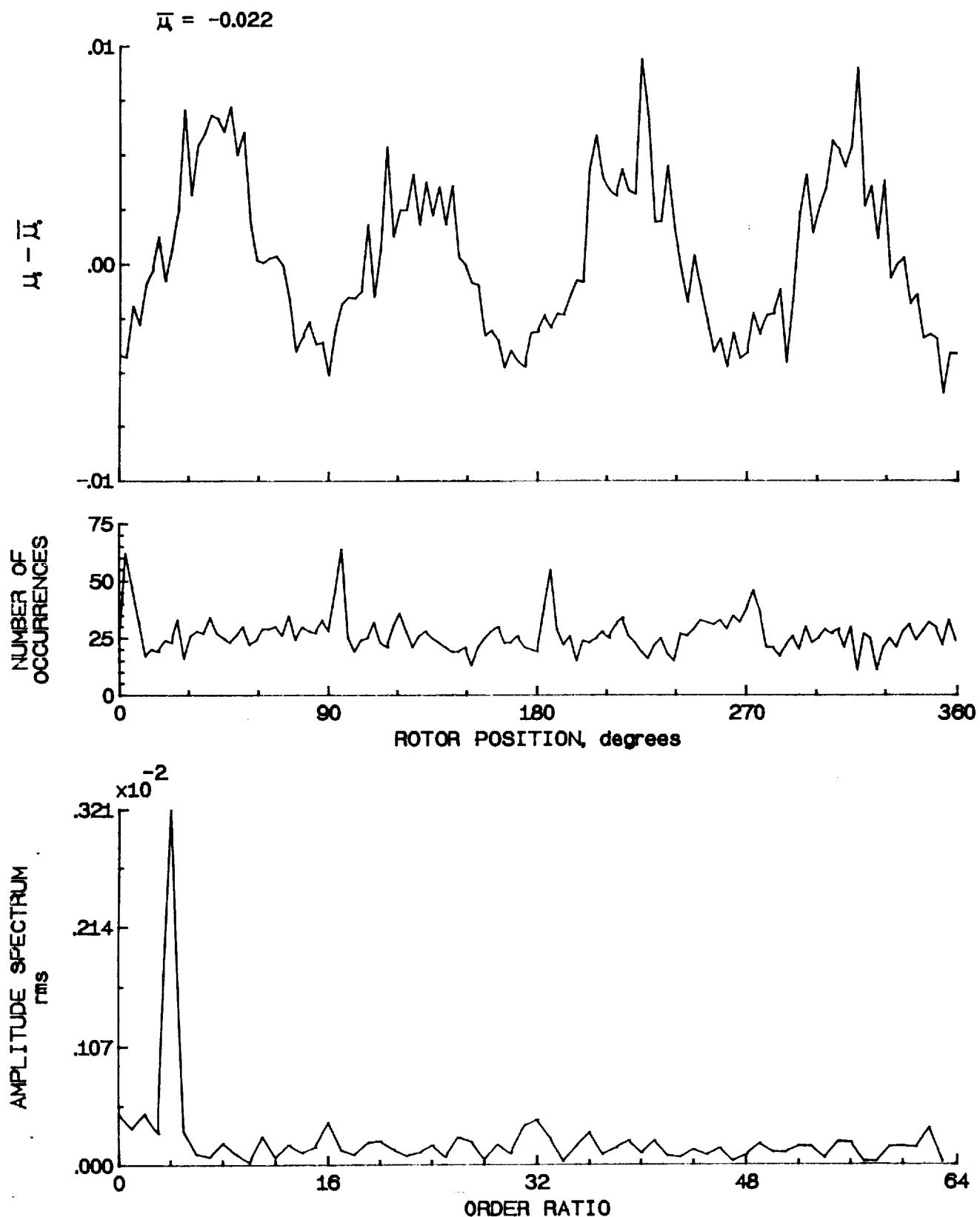


Figure 110.- Induced inflow velocity measured at 180 degrees and r/R of 0.75.

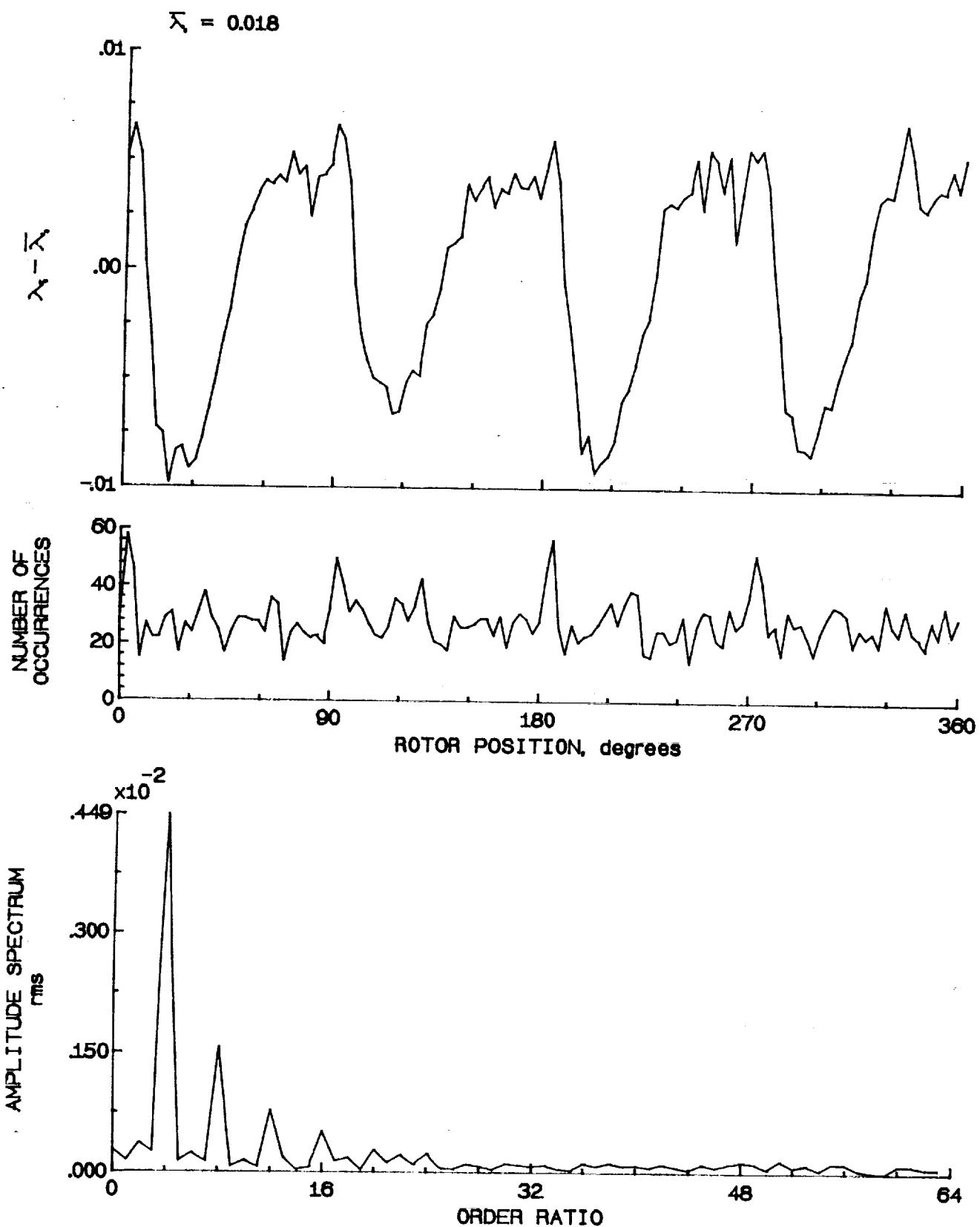


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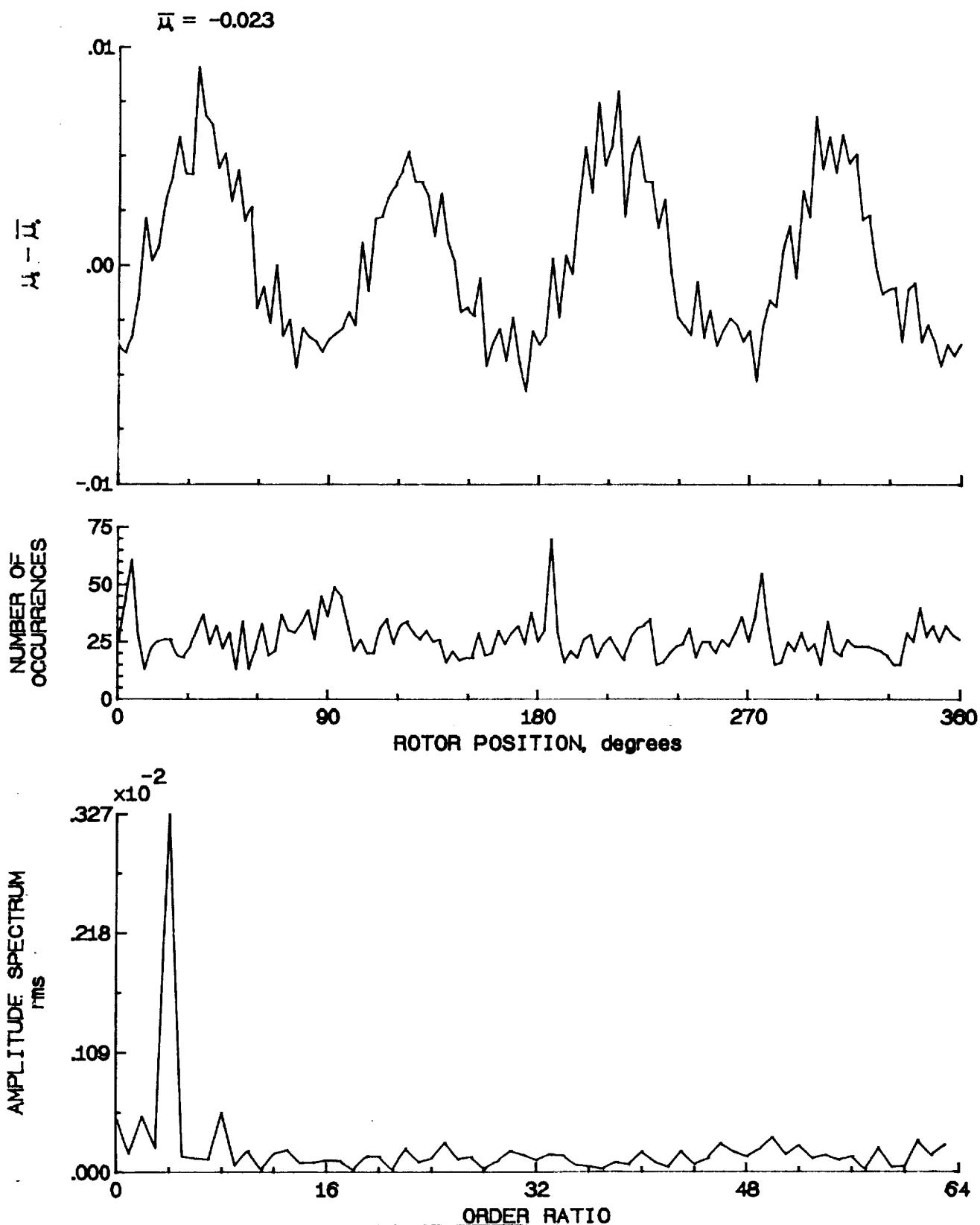


Figure 111.- Induced inflow velocity measured at 180 degrees and r/R of 0.81.

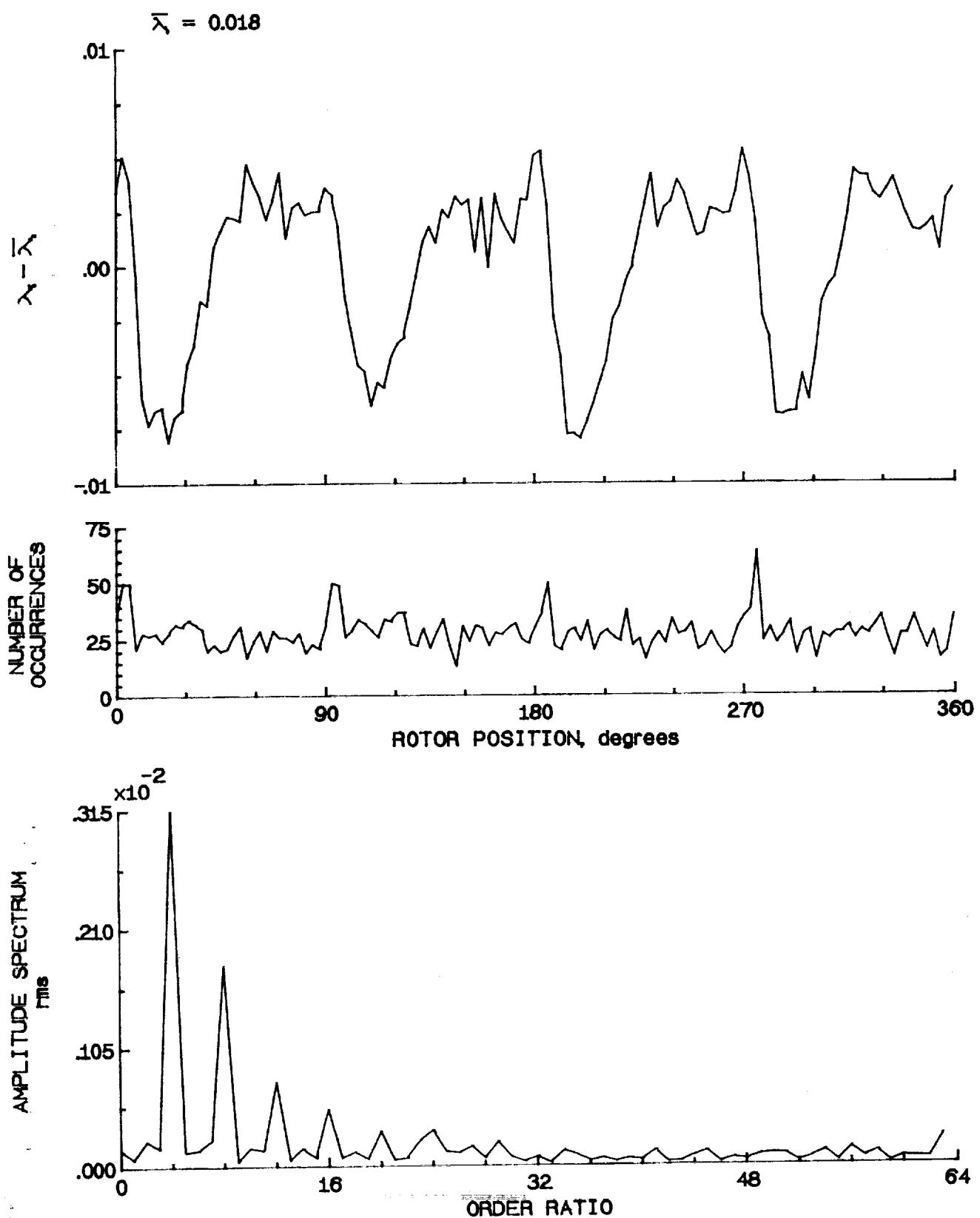


Figure iii.- Concluded.

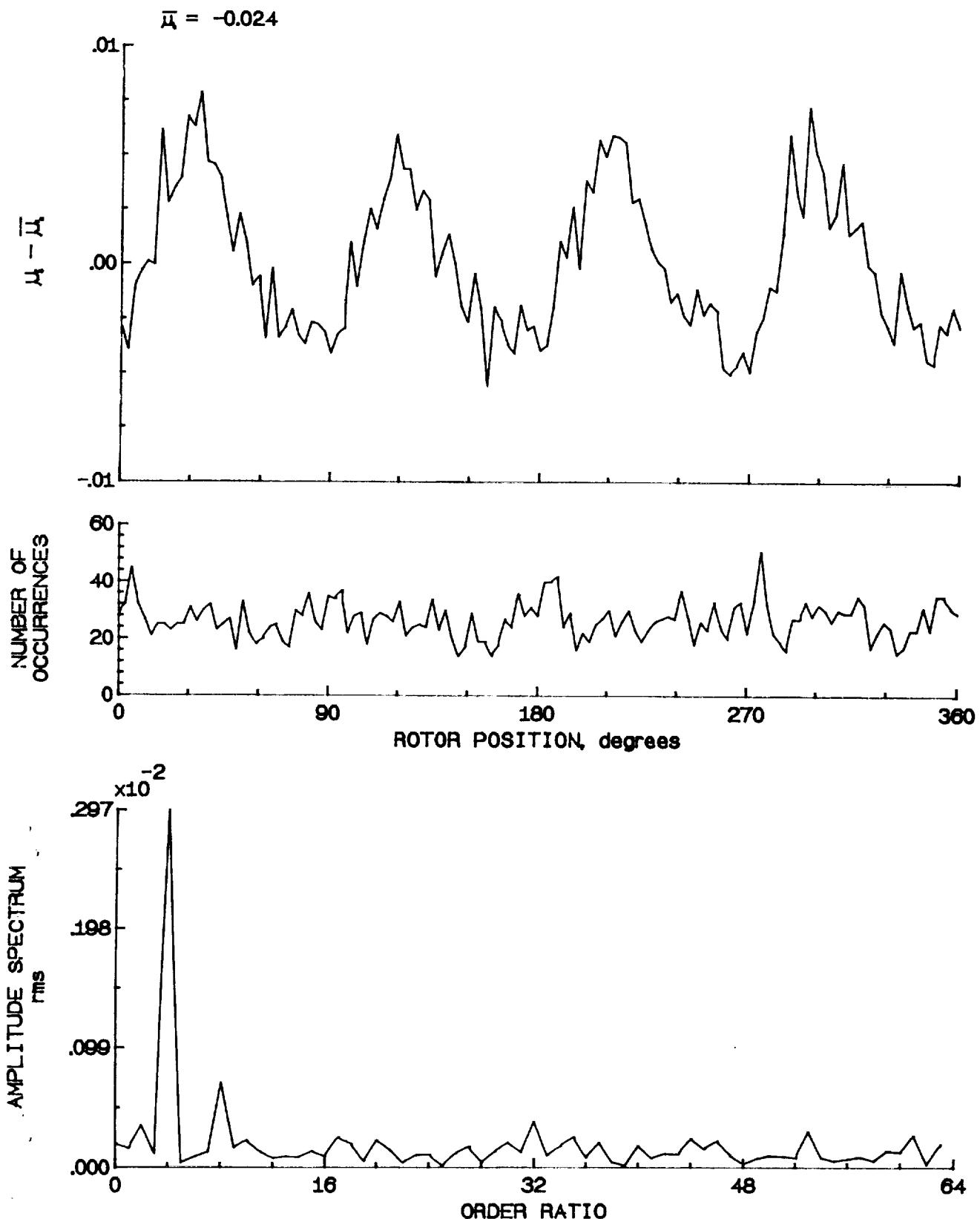


Figure 112.- Induced inflow velocity measured at 180 degrees and r/R of 0.86.

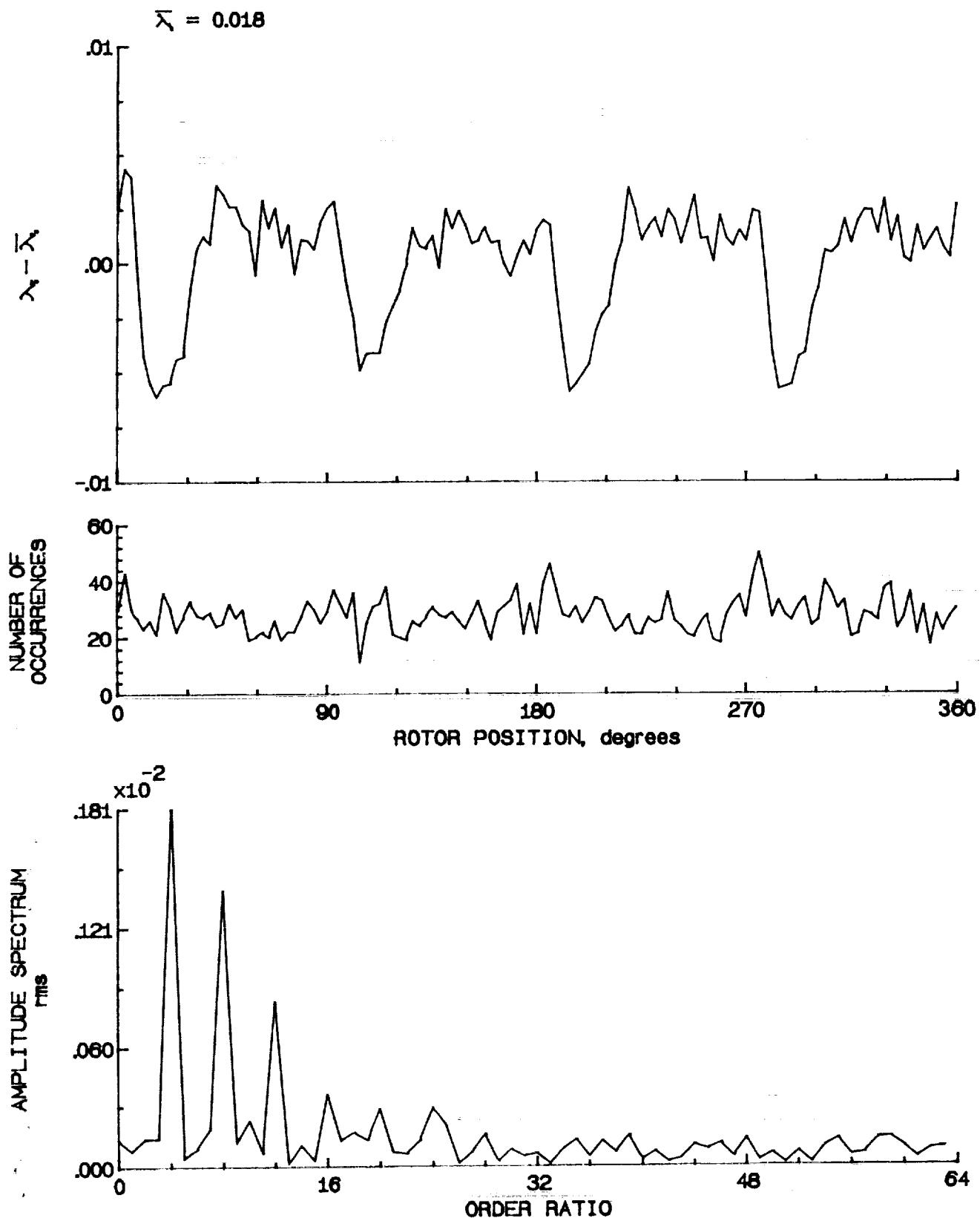


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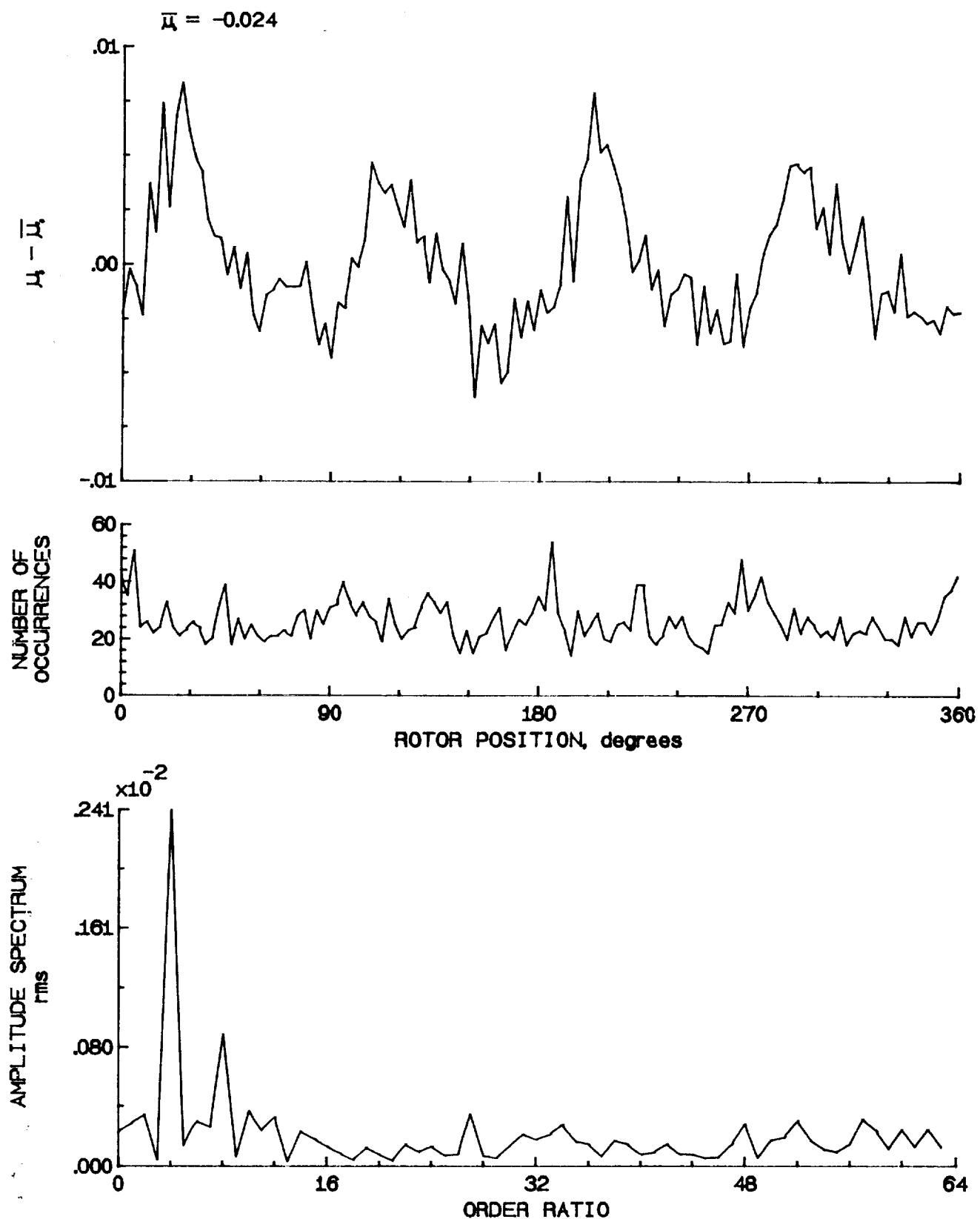


Figure 113.- Induced inflow velocity measured at 180 degrees and r/R of 0.90.

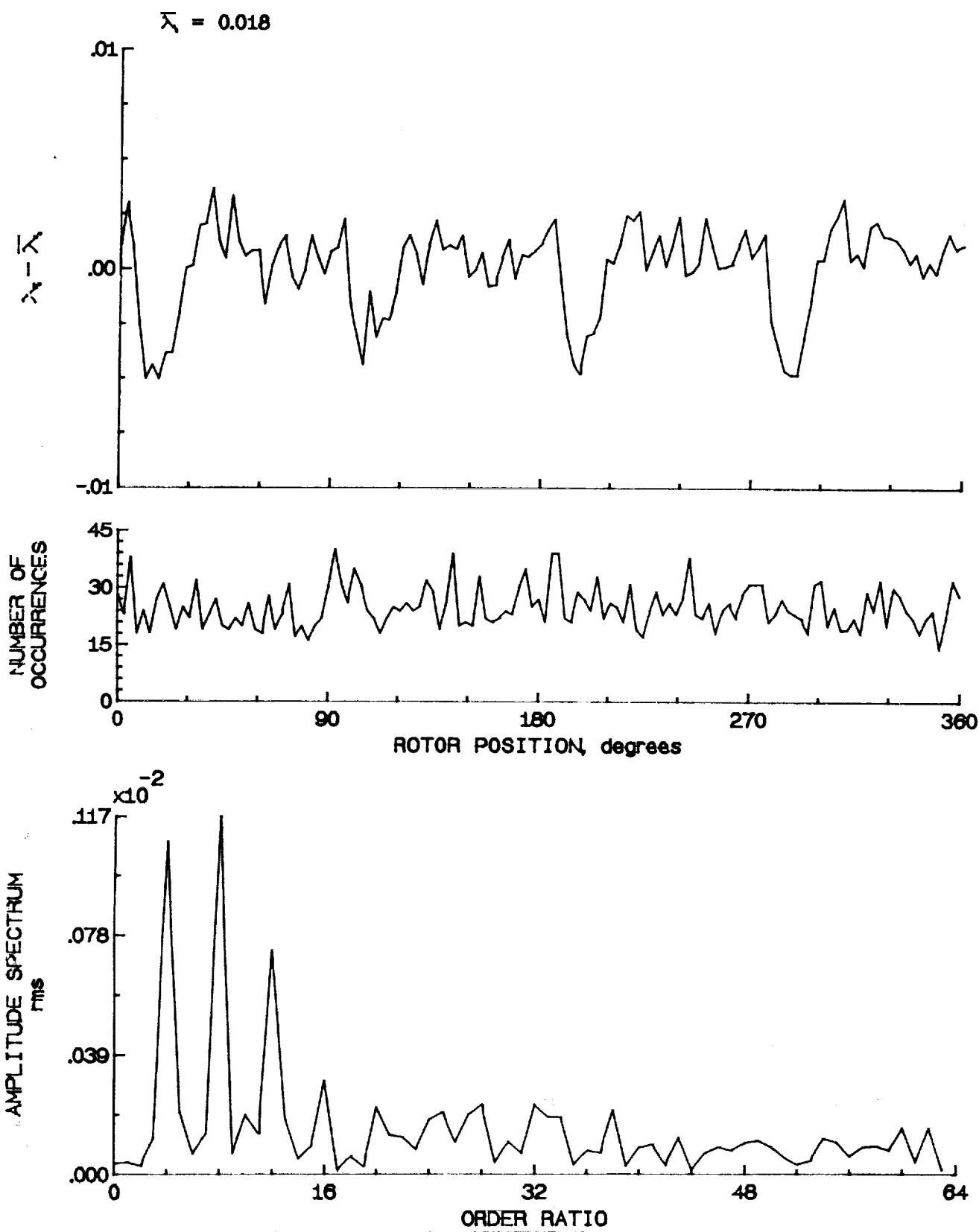


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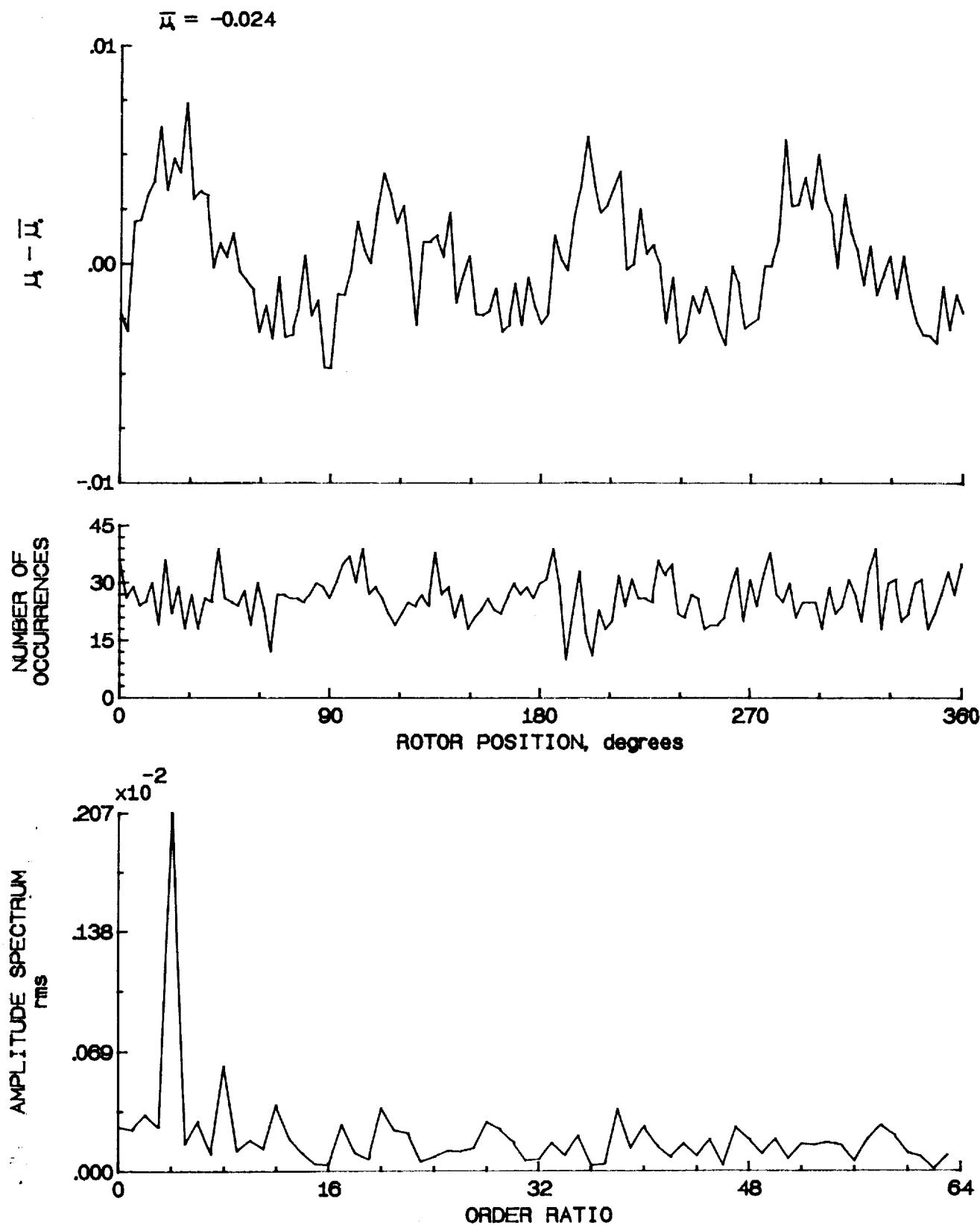


Figure 114.- Induced inflow velocity measured at 180 degrees and r/R of 0.94.

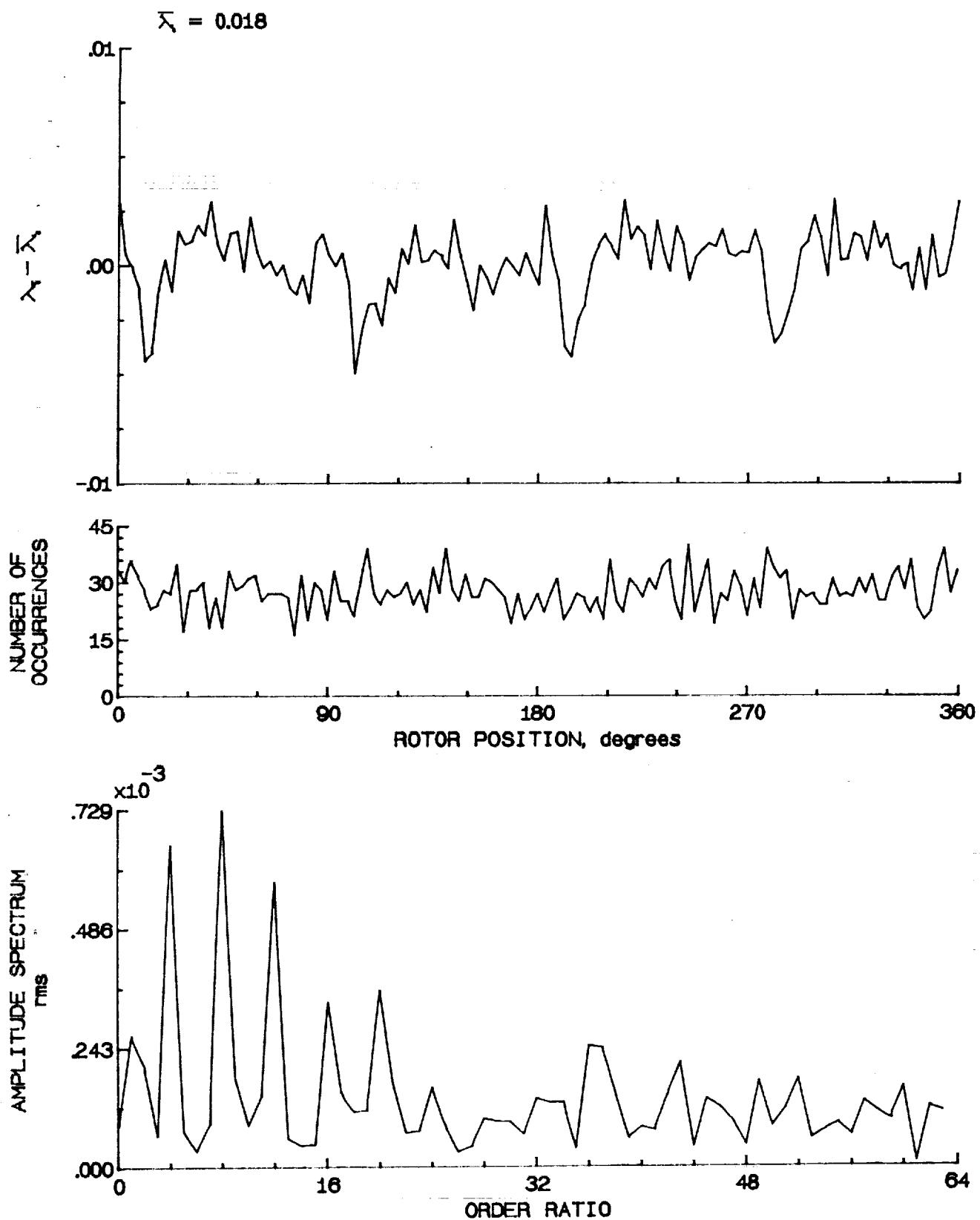


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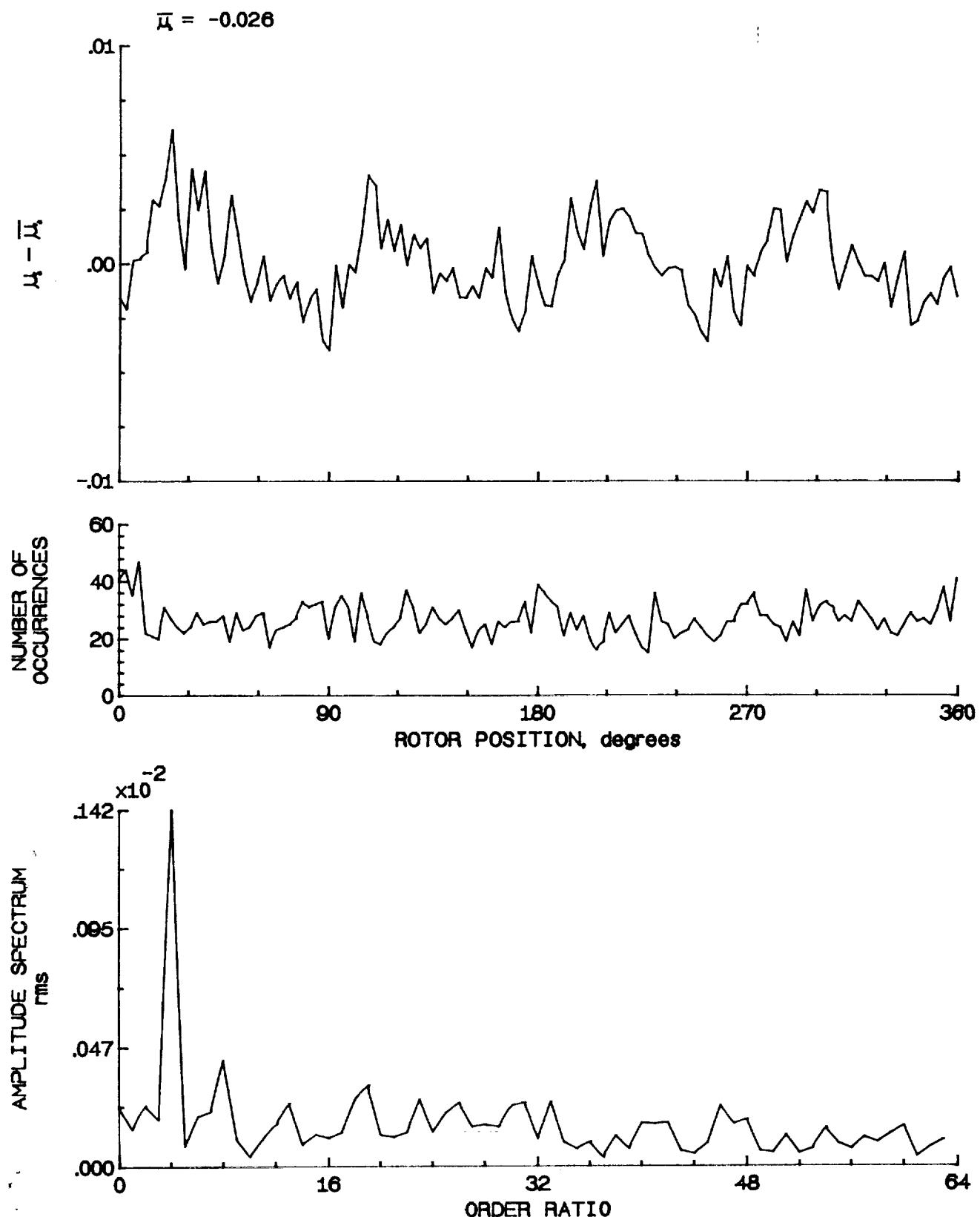


Figure 115.- Induced inflow velocity measured at 180 degrees and r/R of 0.96.

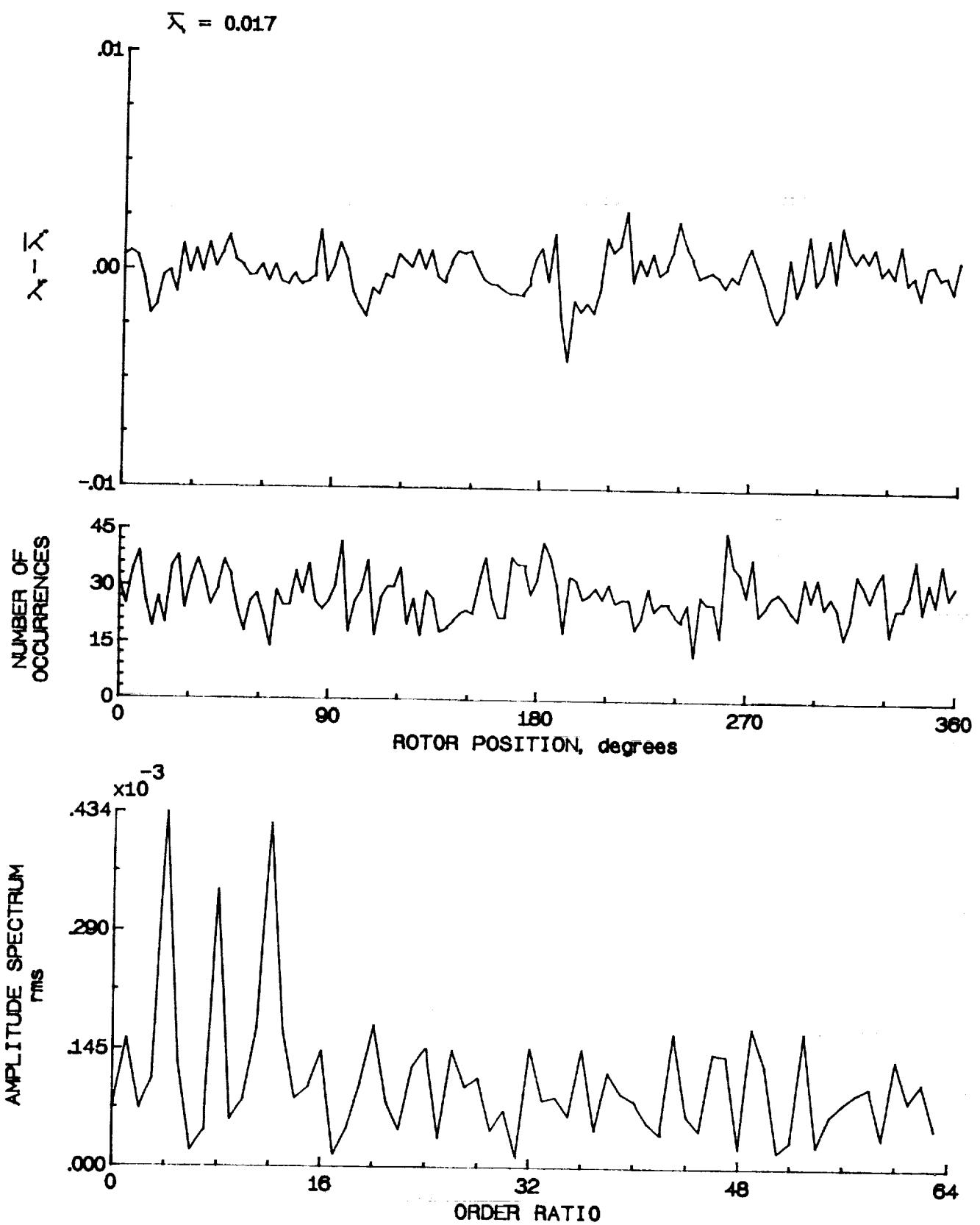


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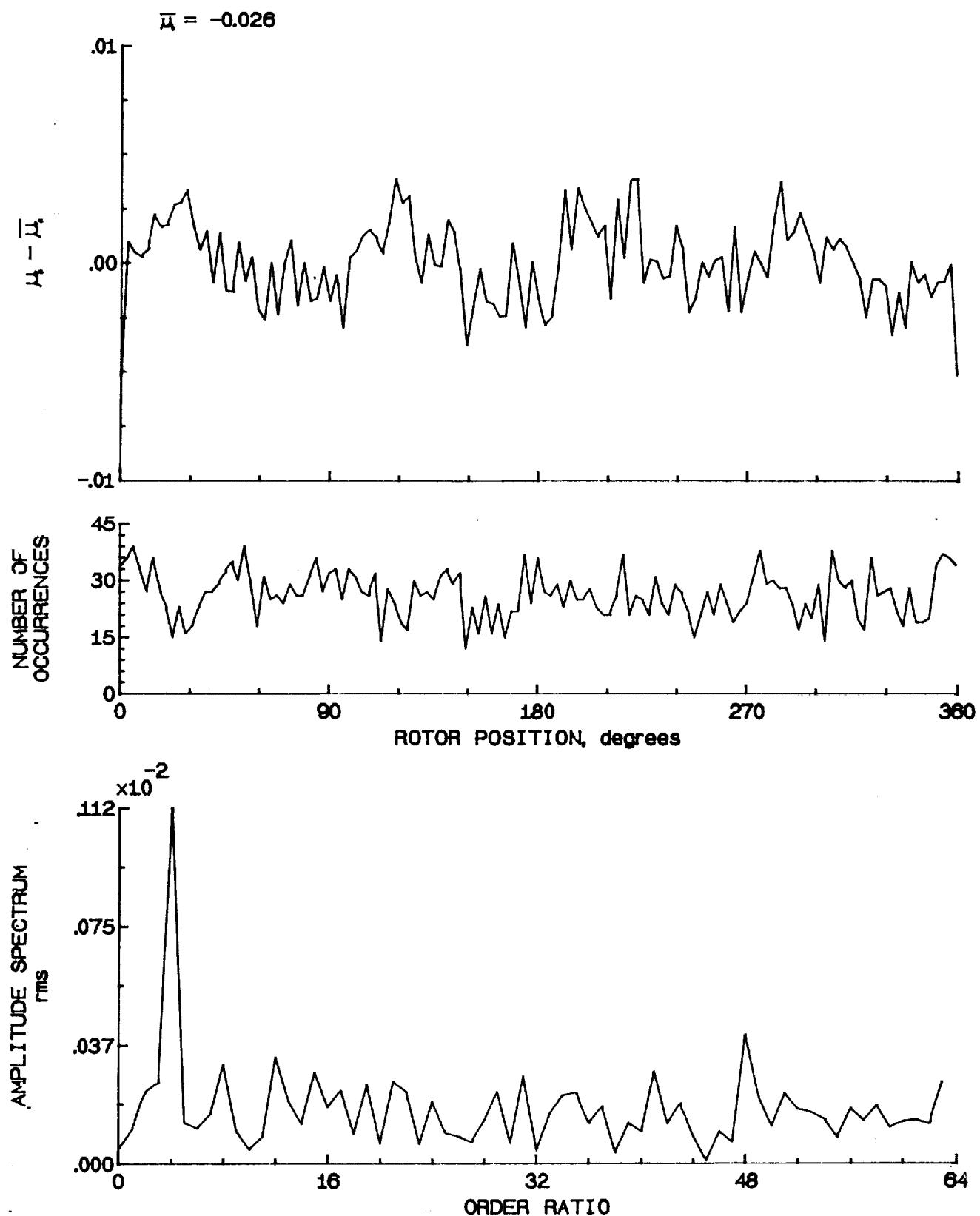


Figure 116.- Induced inflow velocity measured at 180 degrees and r/R of 1.00.

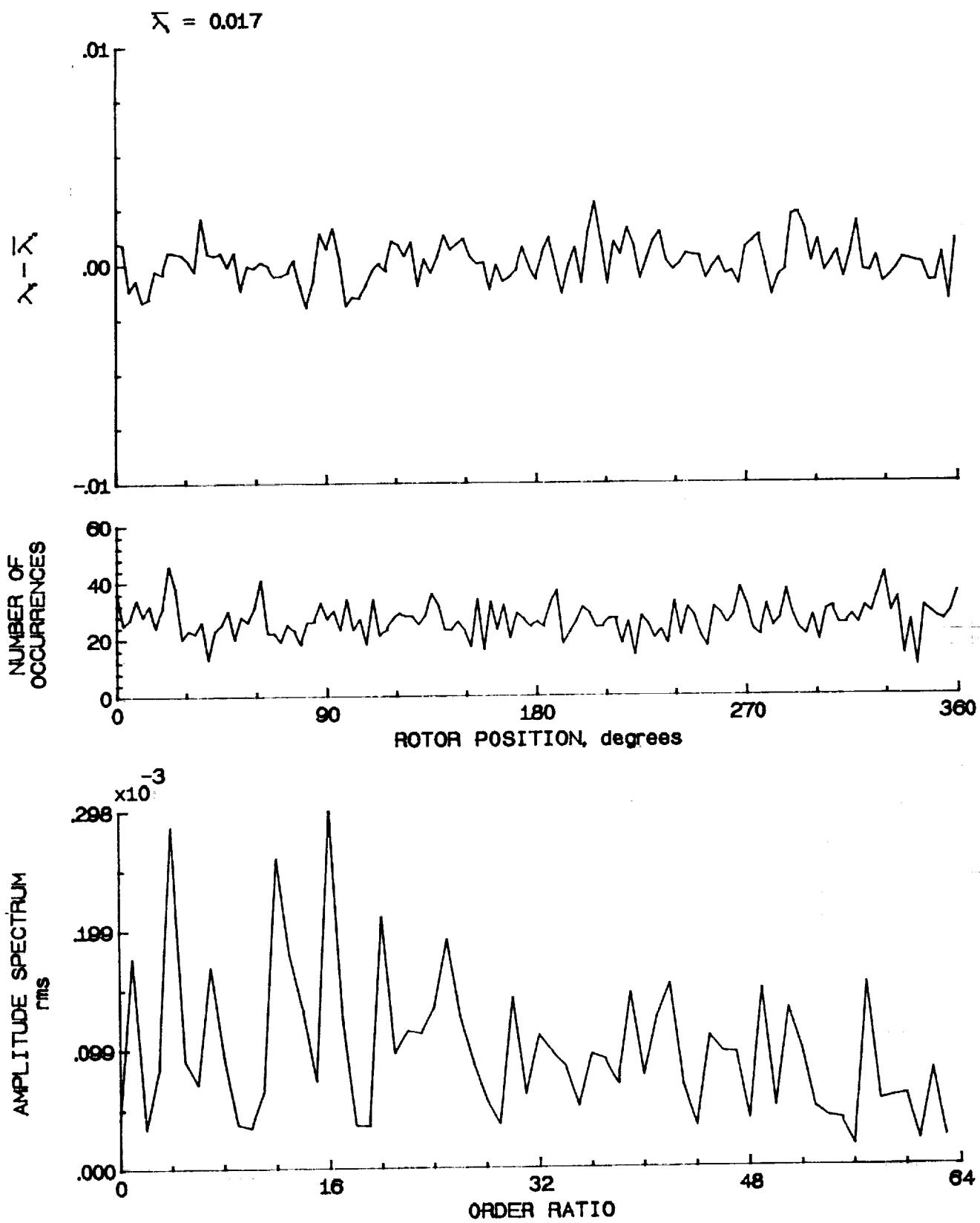


Figure 116.- Concluded.

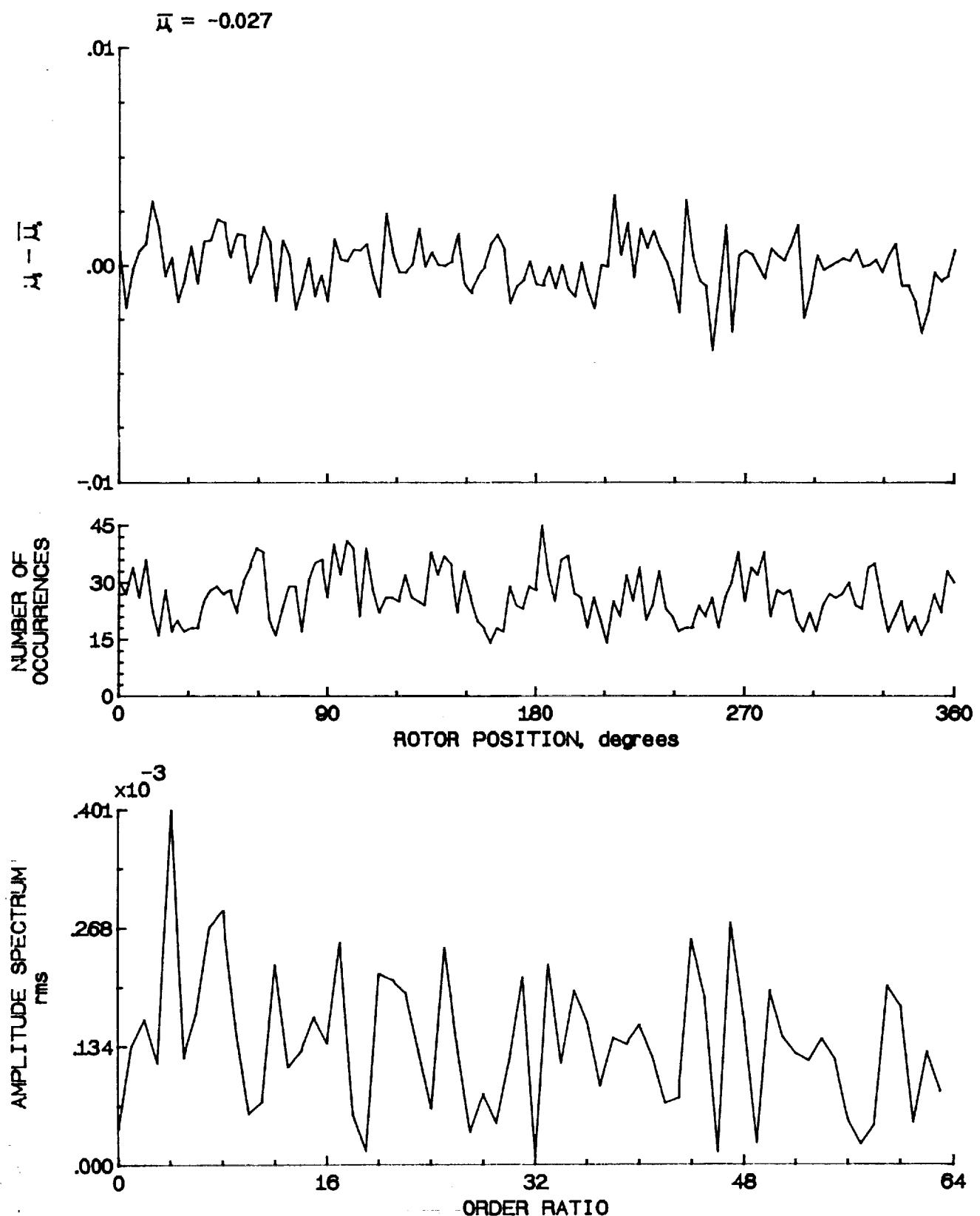


Figure 117.- Induced inflow velocity measured at 180 degrees and r/R of 1.10.

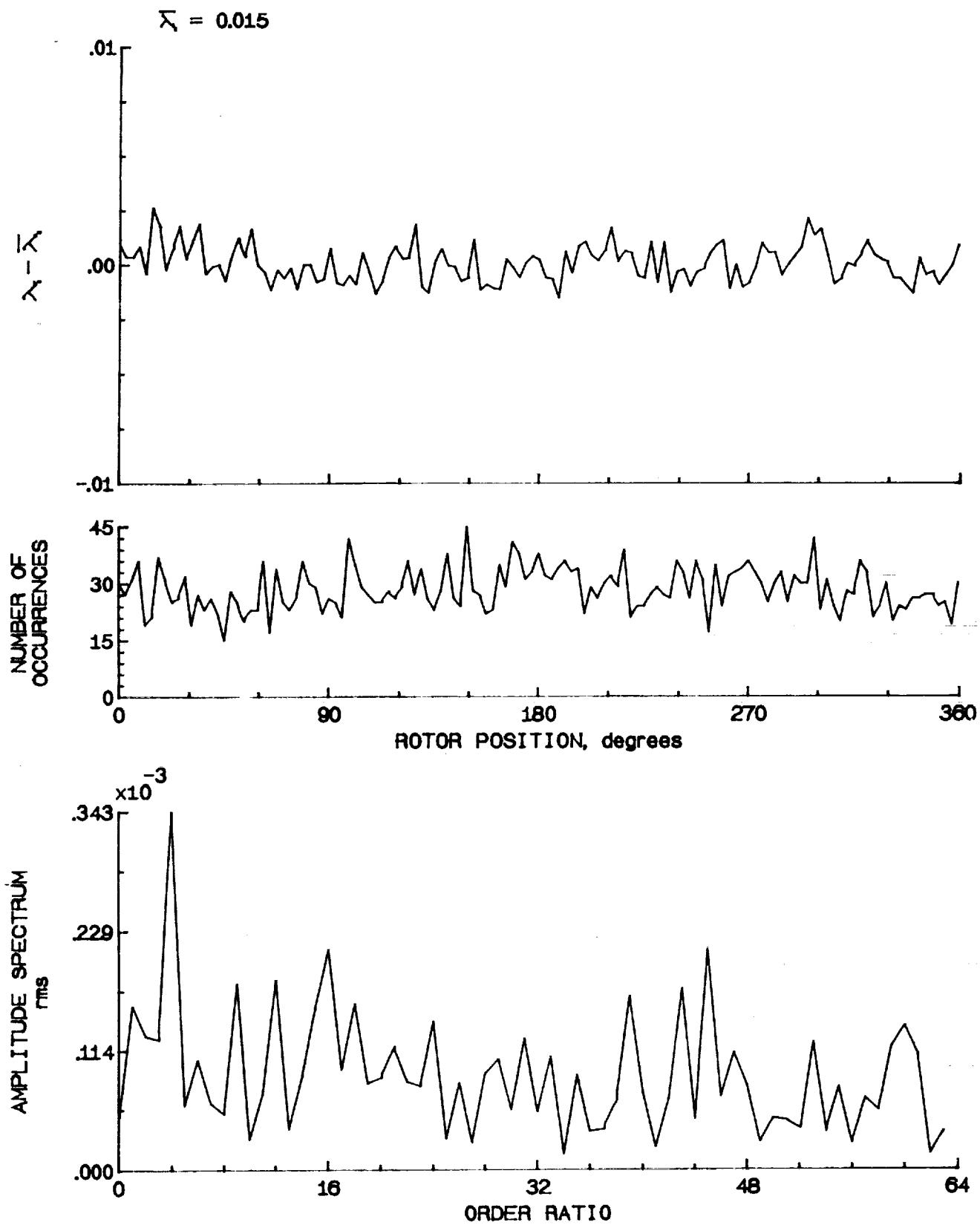


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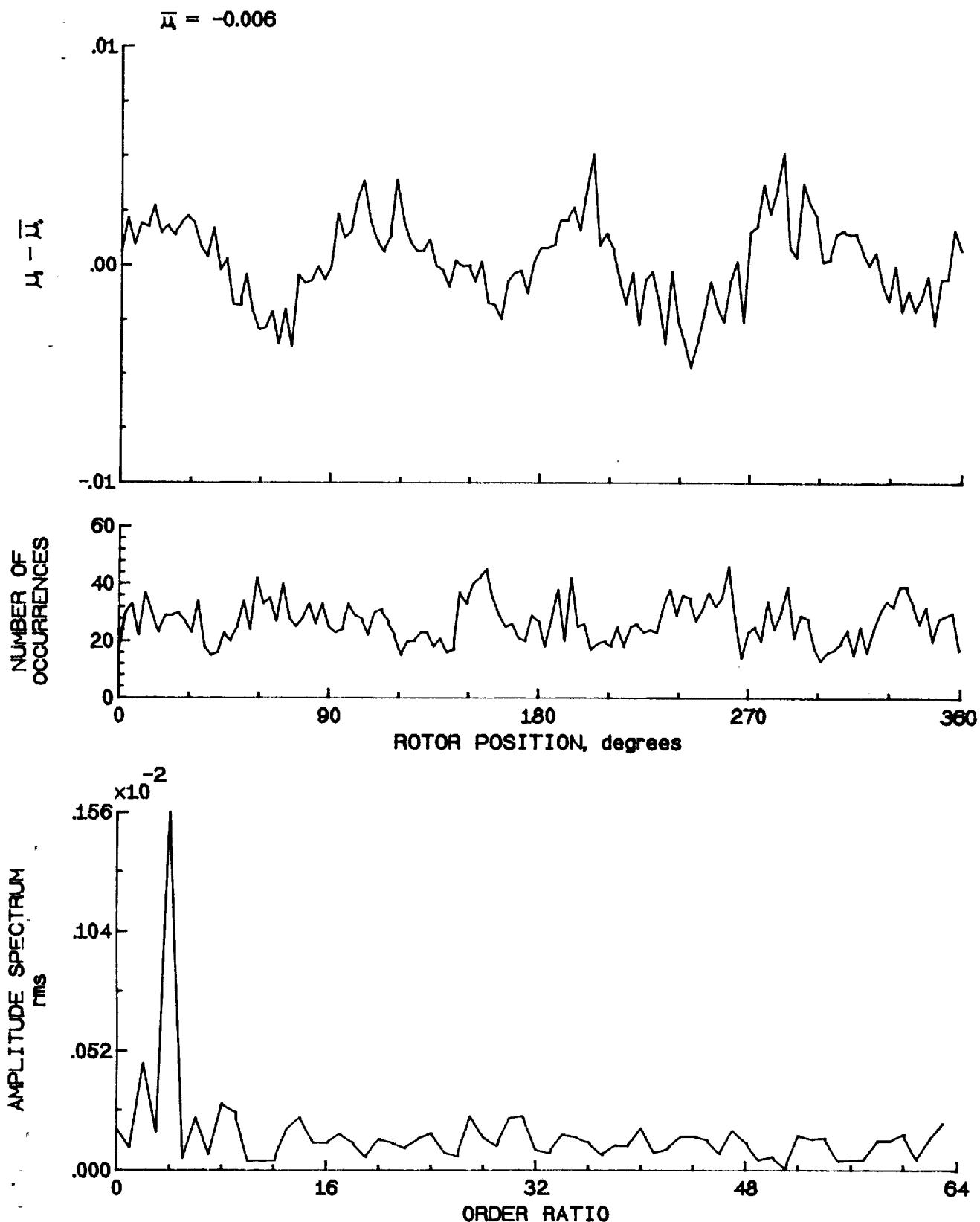


Figure 118.- Induced inflow velocity measured at 210 degrees and r/R of 0.20.

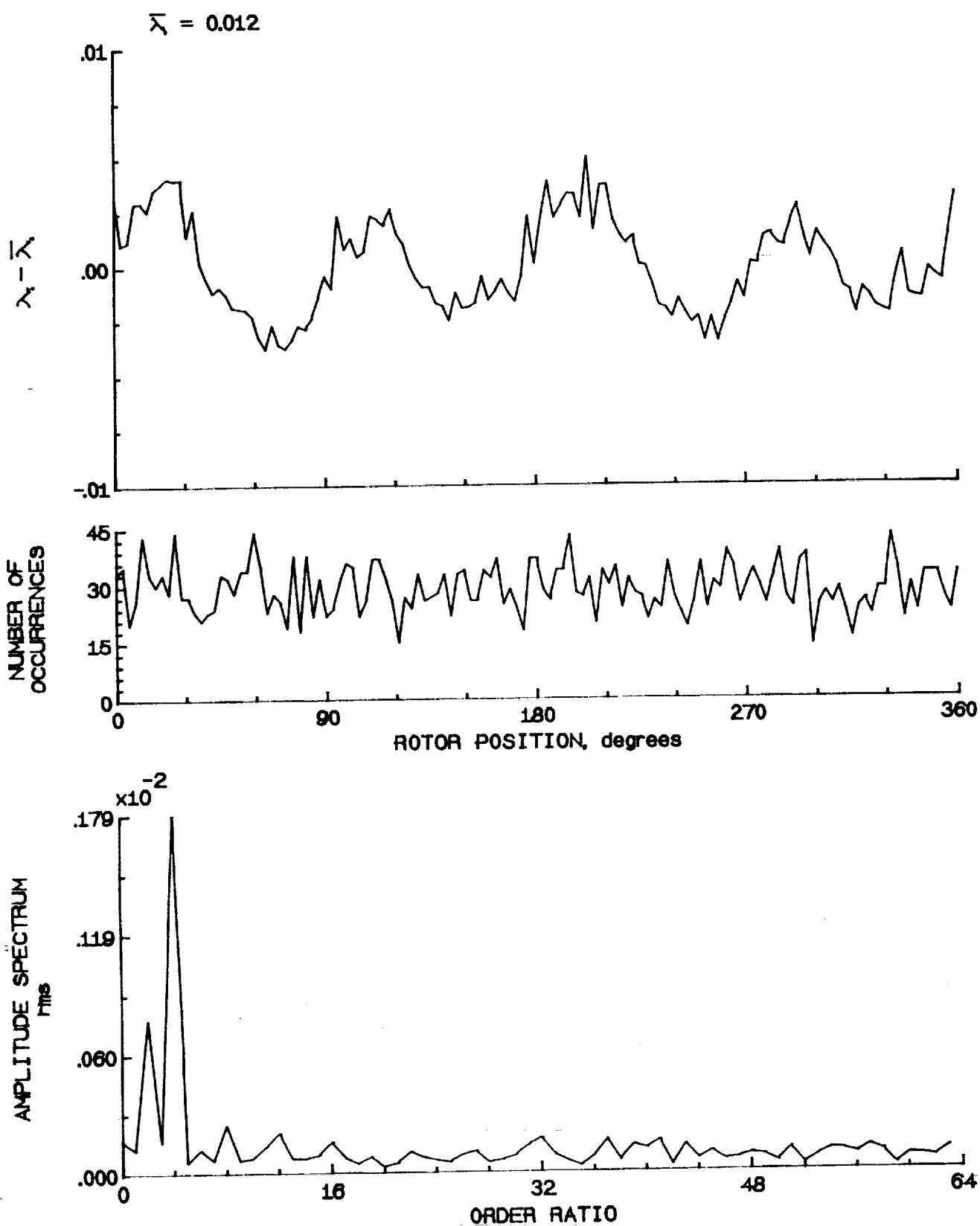


Figure 118.- Concluded.

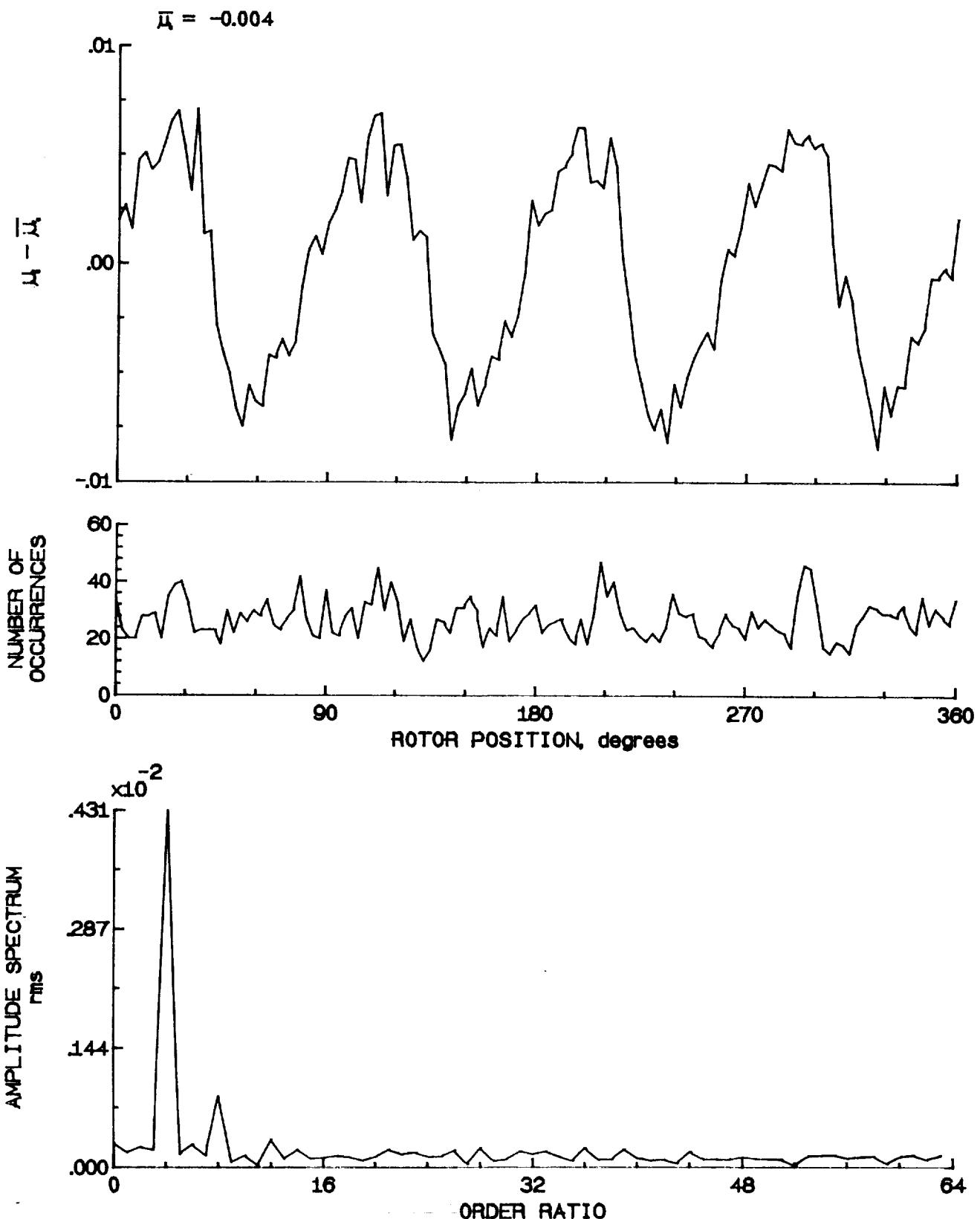


Figure 119.- Induced inflow velocity measured at 210 degrees and r/R of 0.32.

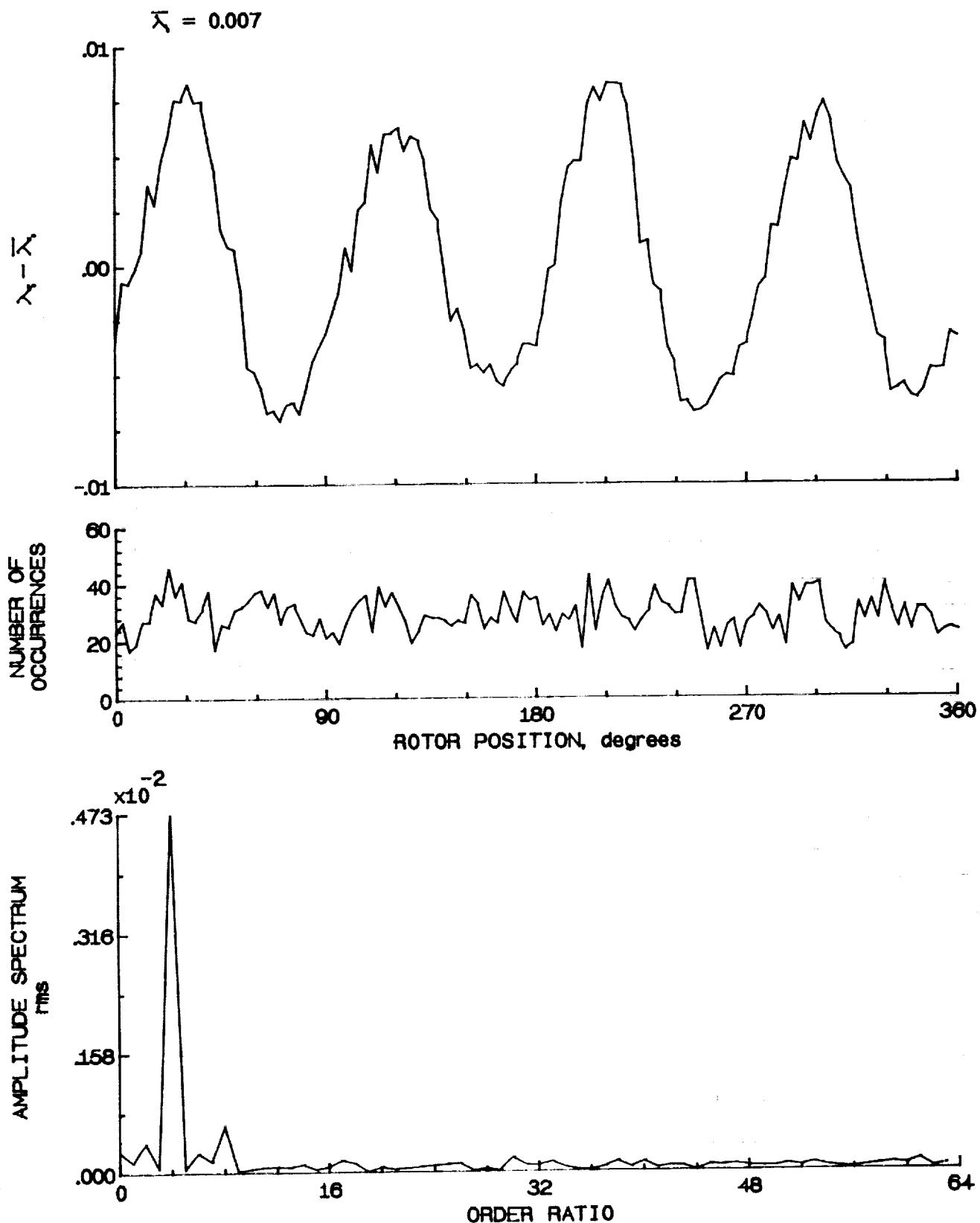


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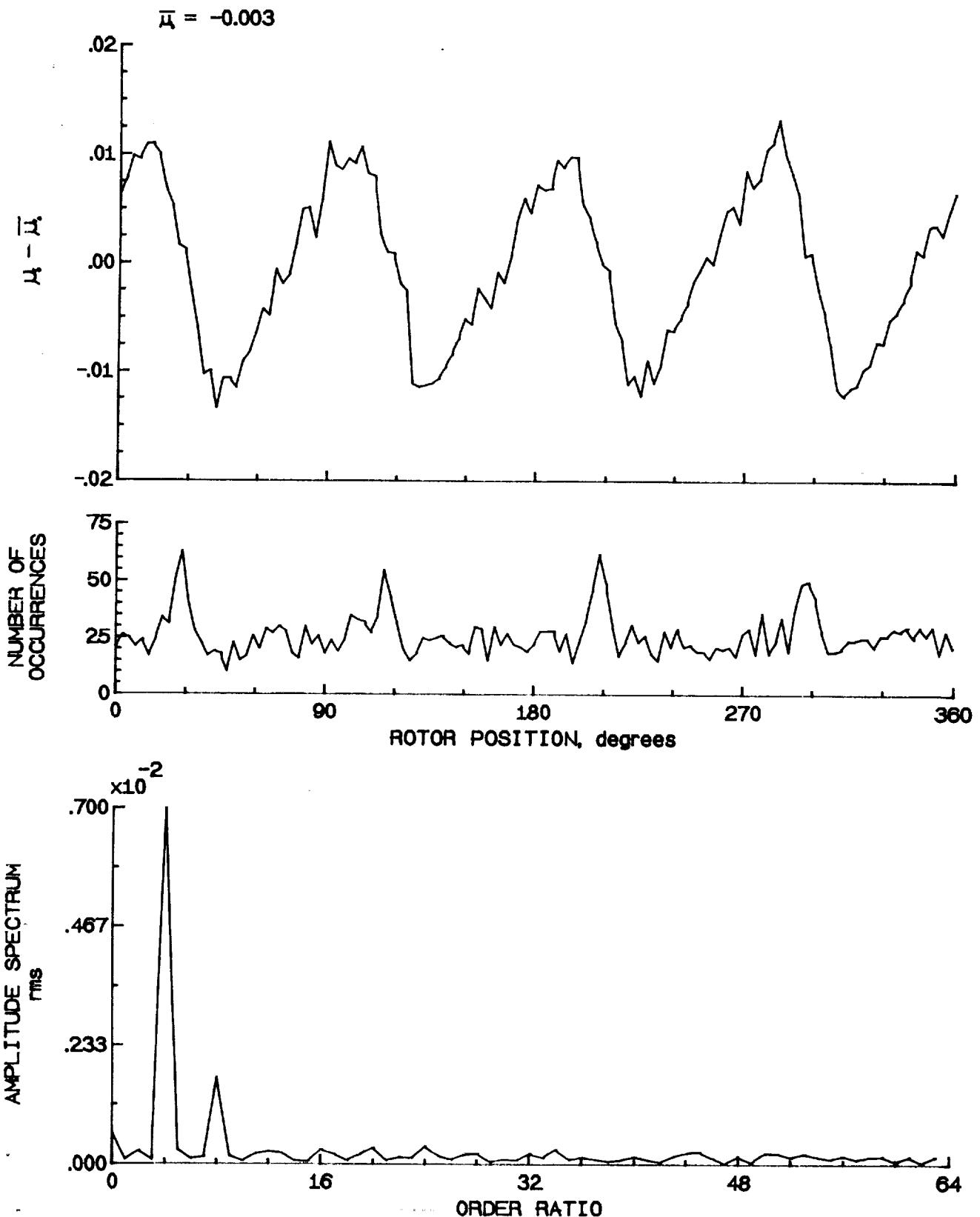


Figure 120.- Induced inflow velocity measured at 210 degrees and r/R of 0.50.

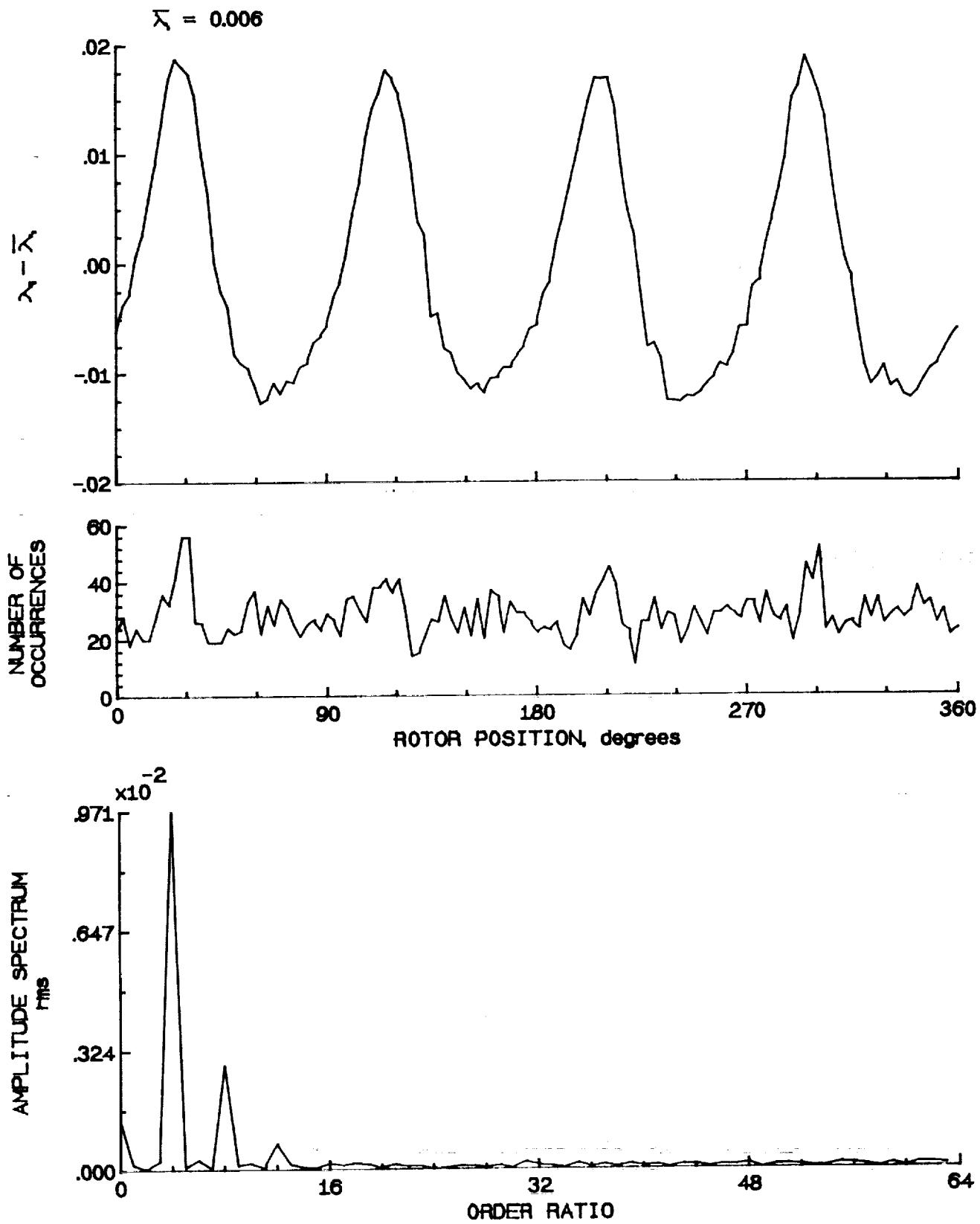


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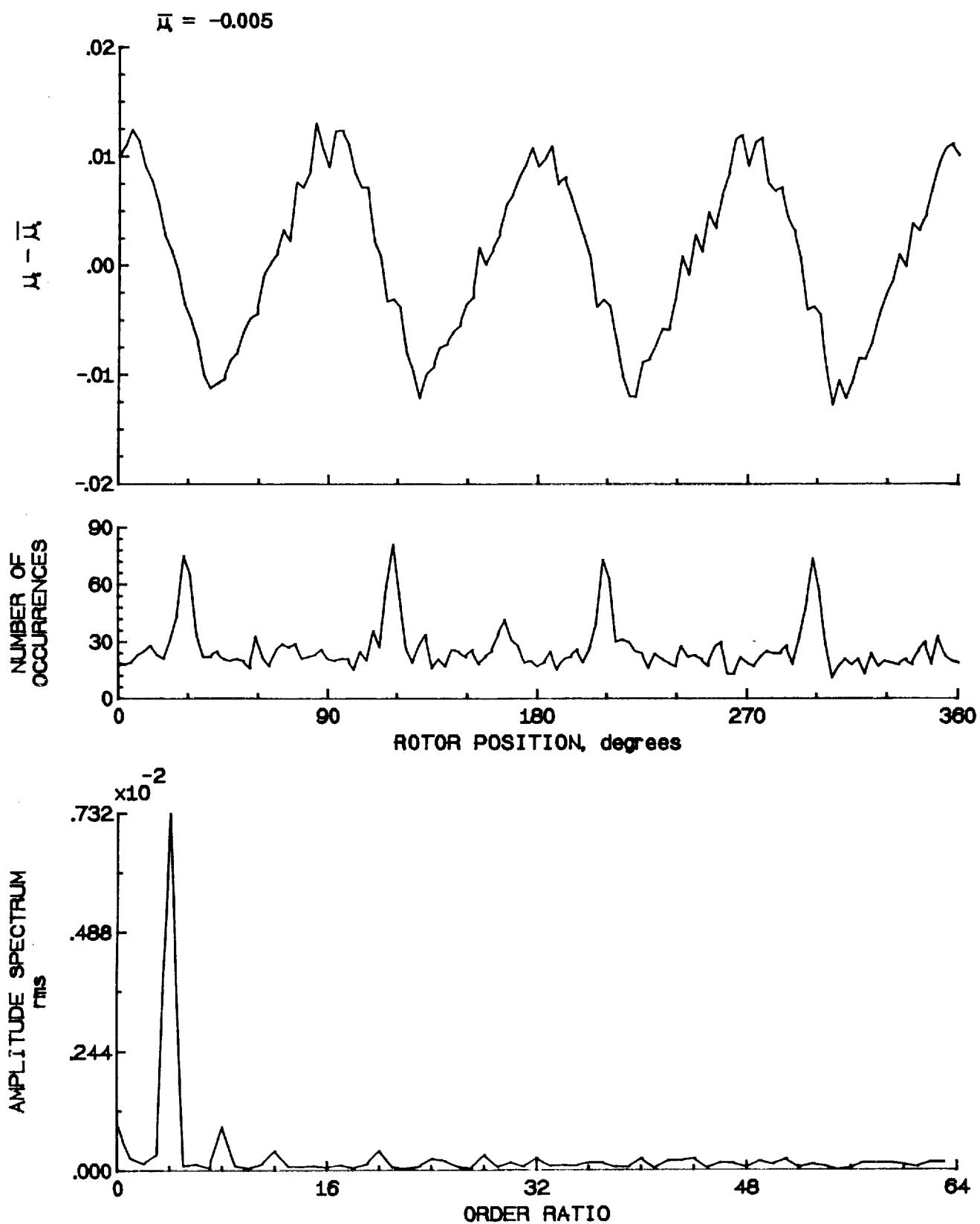


Figure 121.- Induced inflow velocity measured at 210 degrees and r/R of 0.58.

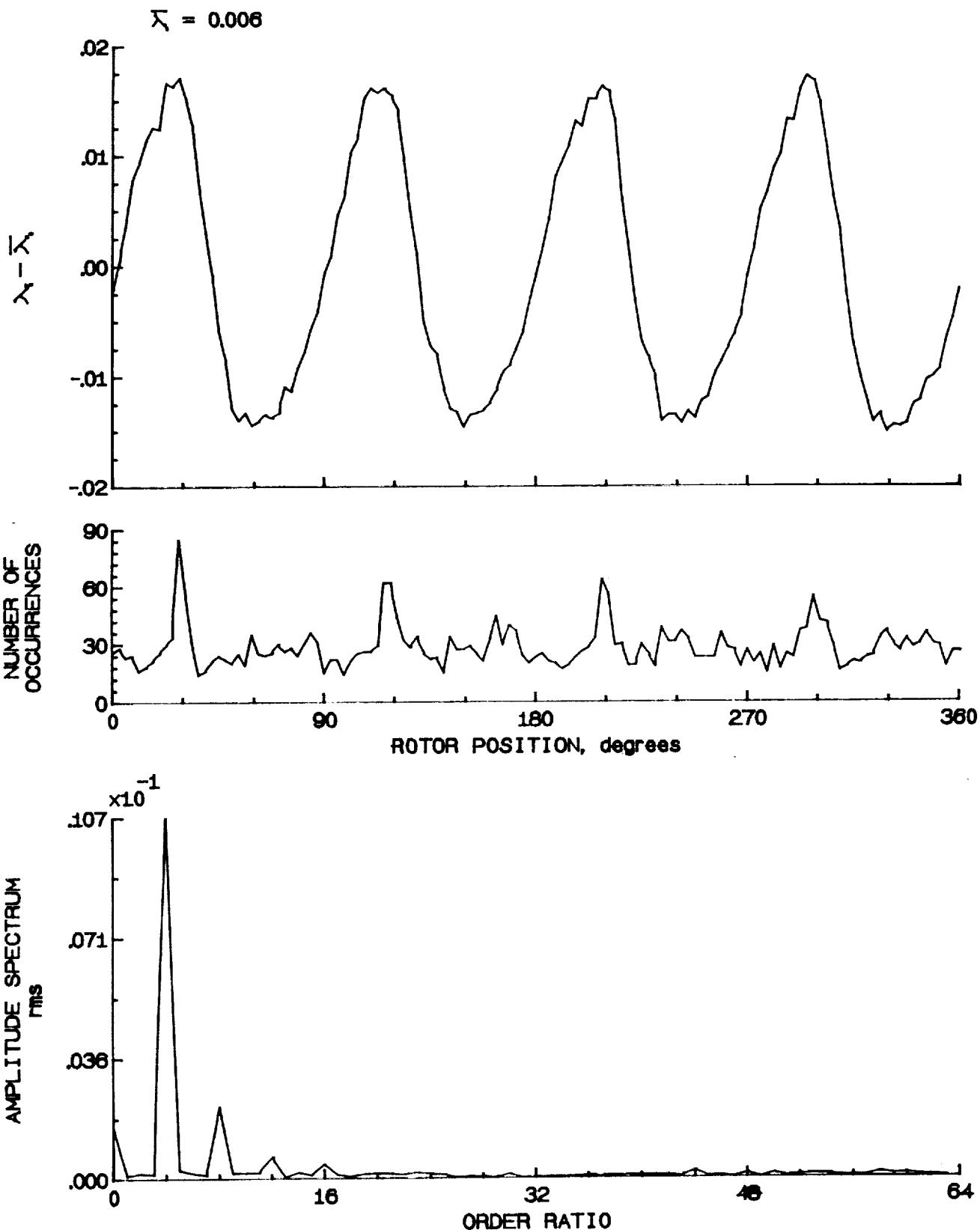


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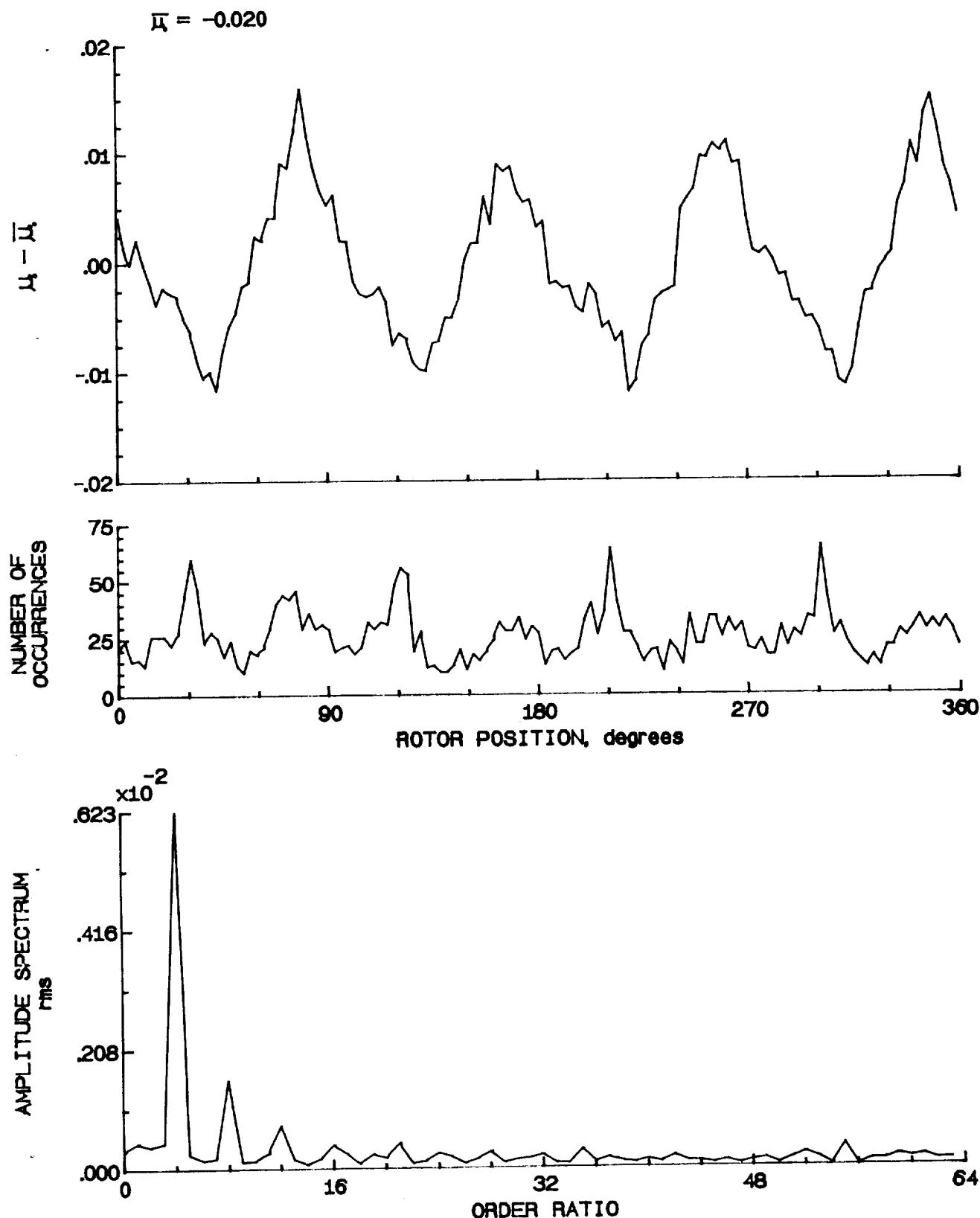


Figure 122.- Induced inflow velocity measured at 210 degrees and r/R of 0.69.

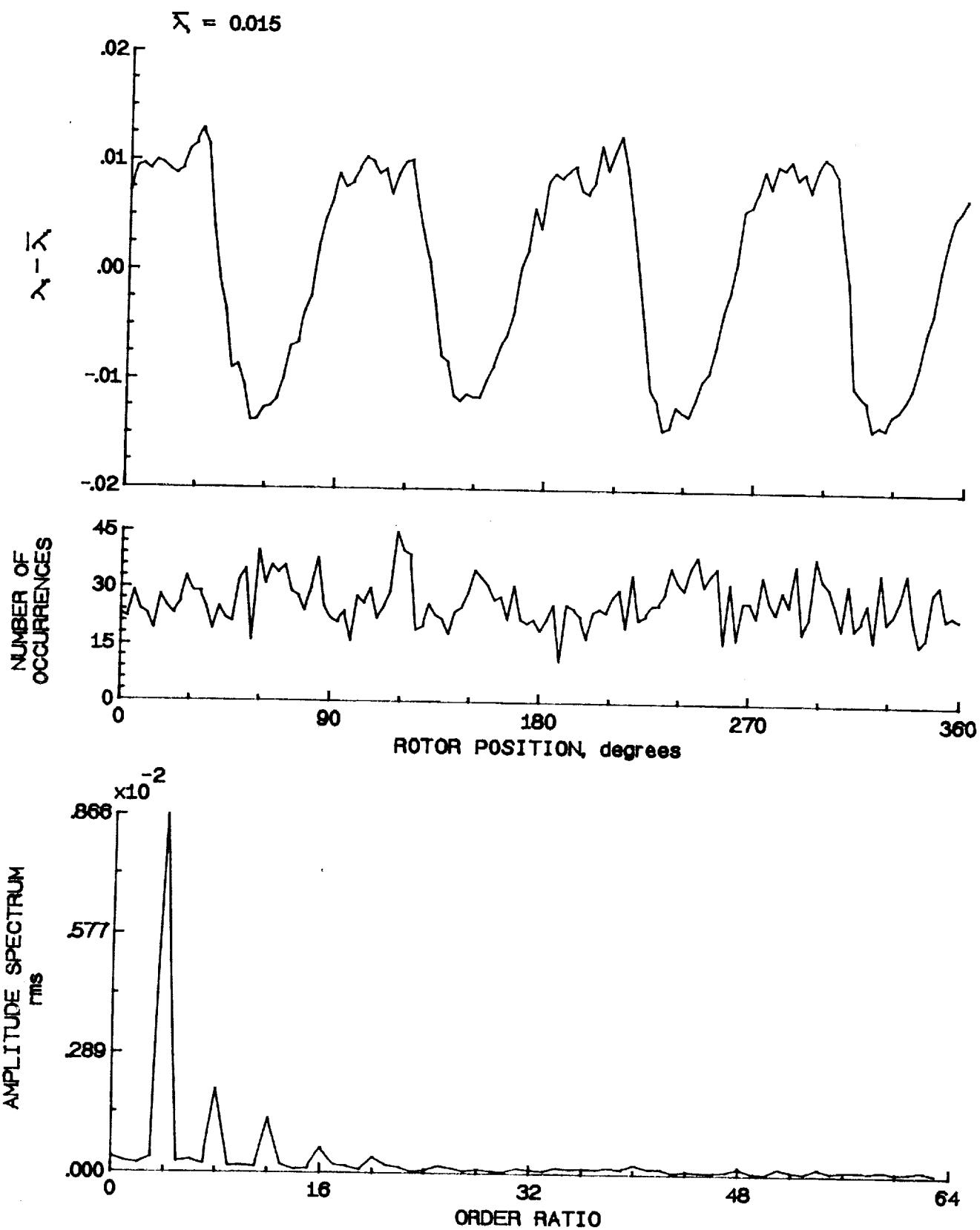


Figure 122.- Concluded.

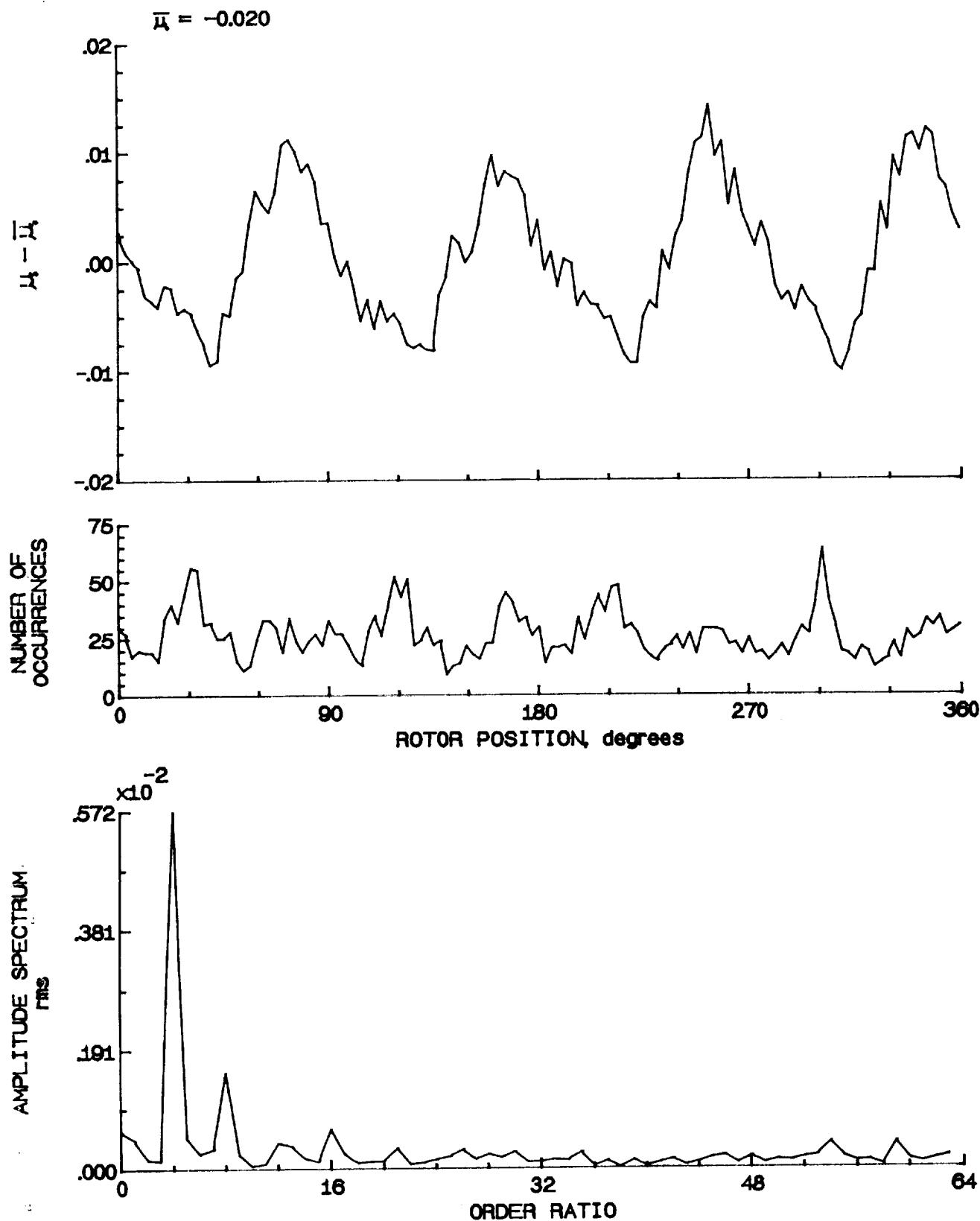


Figure 123.- Induced inflow velocity measured at 210 degrees and r/R of 0.73.

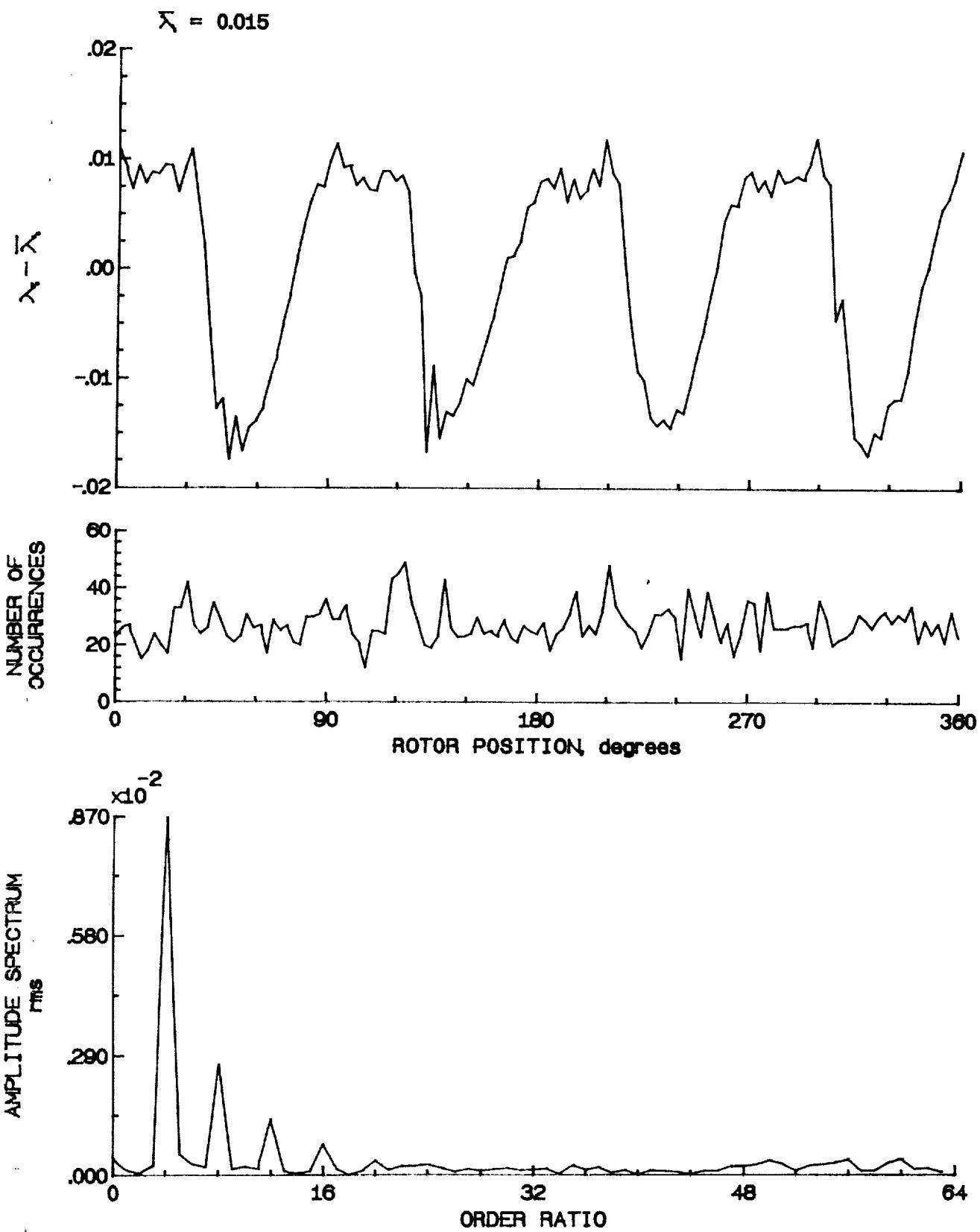


Figure 123.— Concluded.

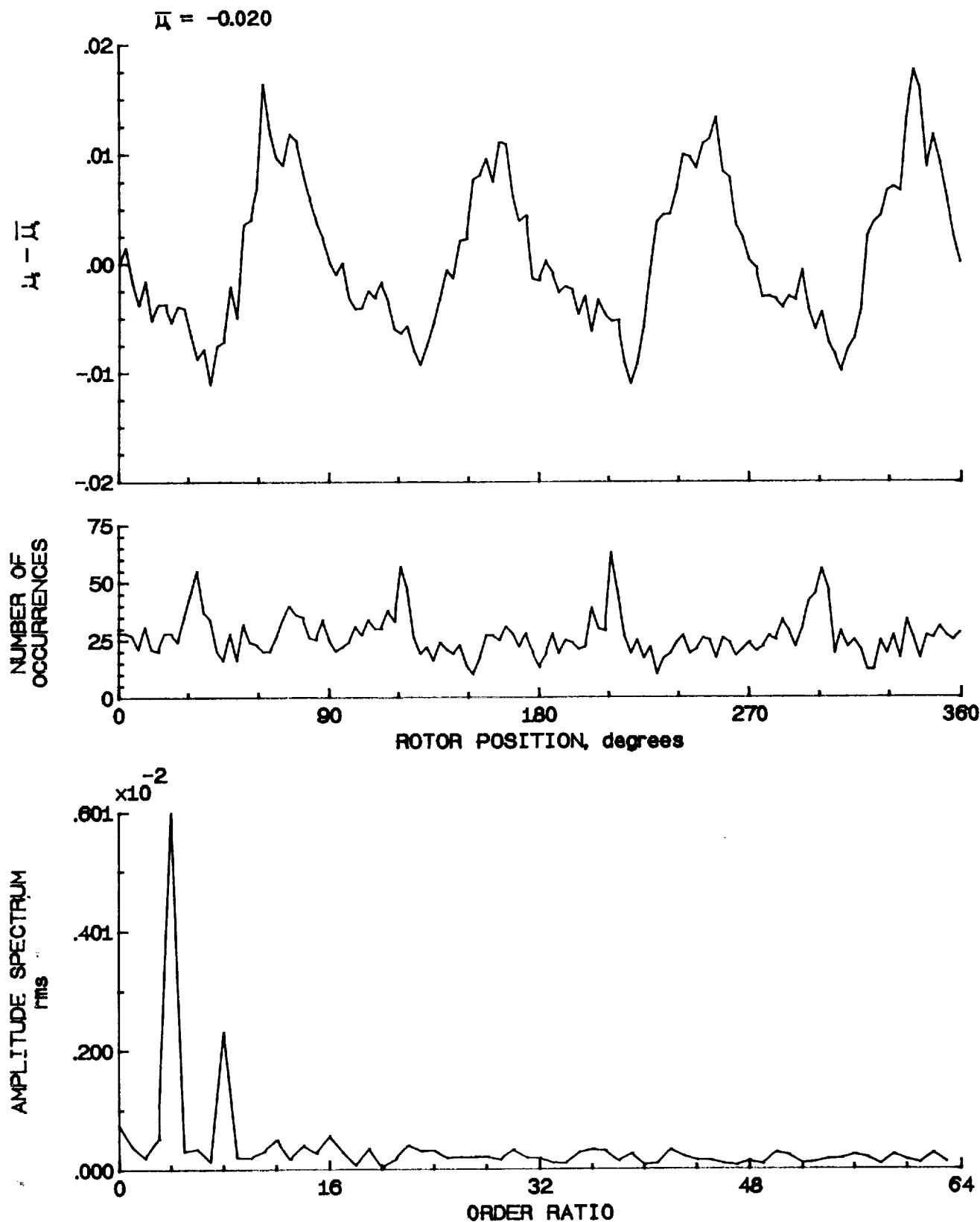


Figure 124.- Induced inflow velocity measured at 210 degrees and r/R of 0.75.

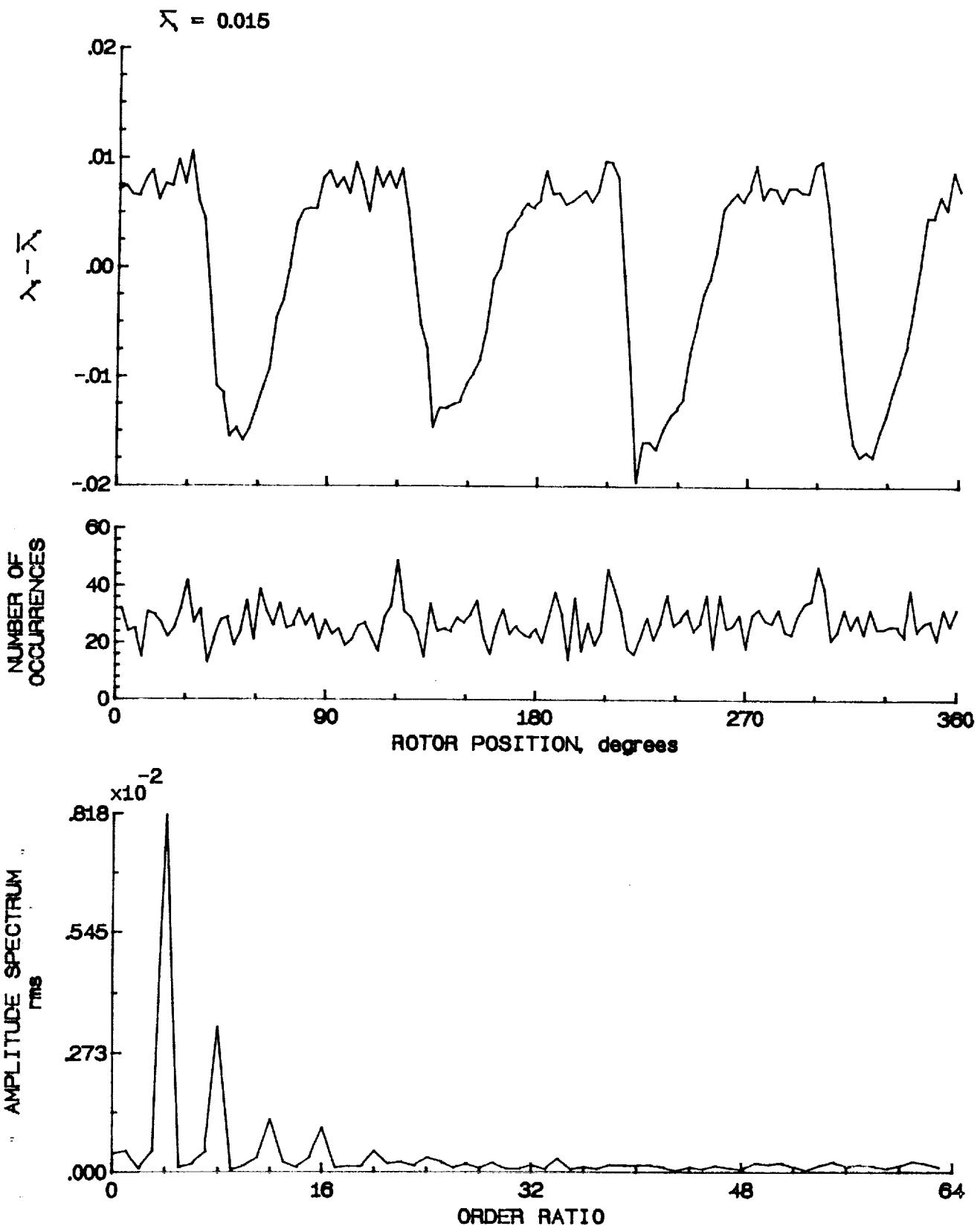


Figure 124.- Concluded.

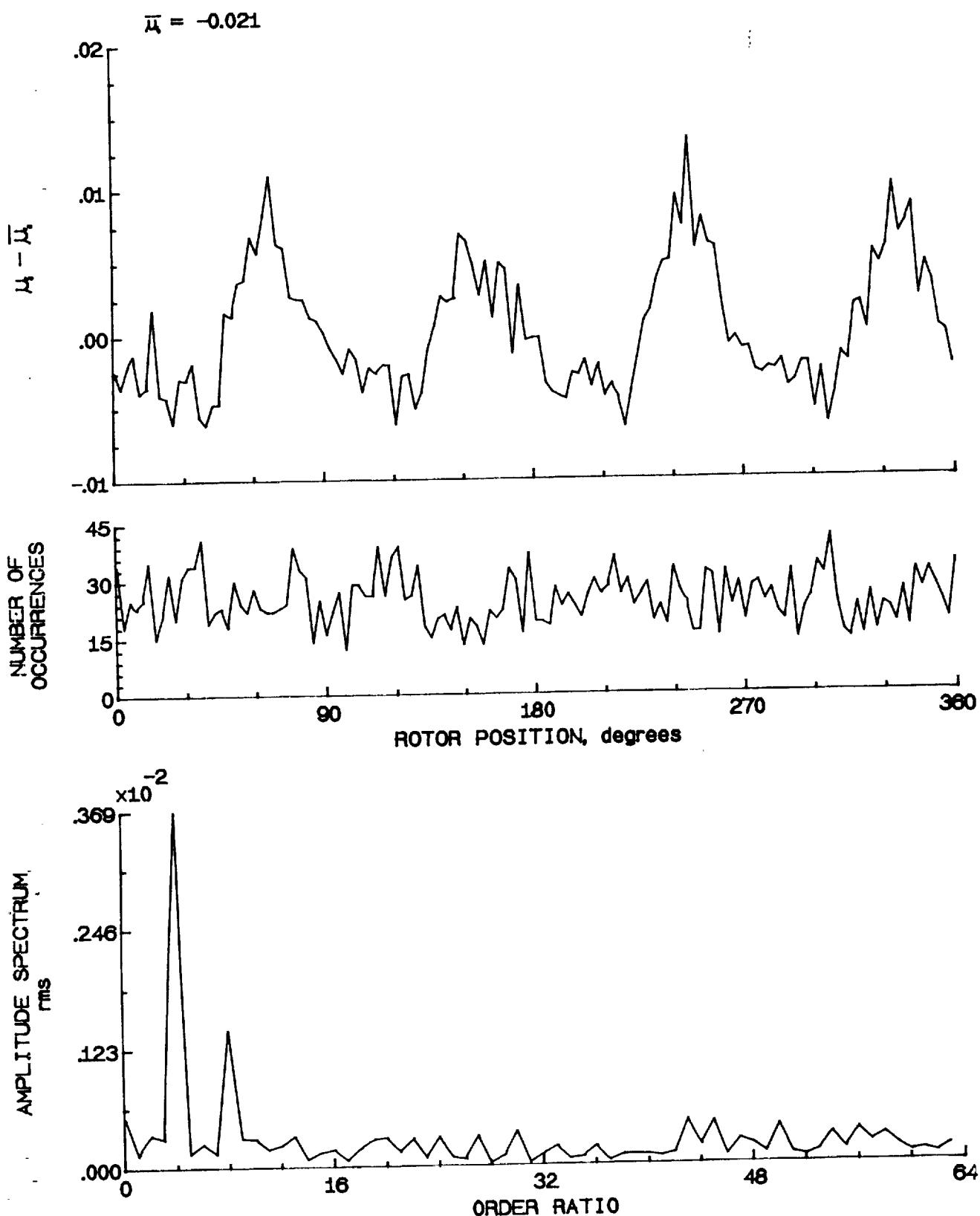


Figure 125.- Induced inflow velocity measured at 210 degrees and r/R of 0.81.

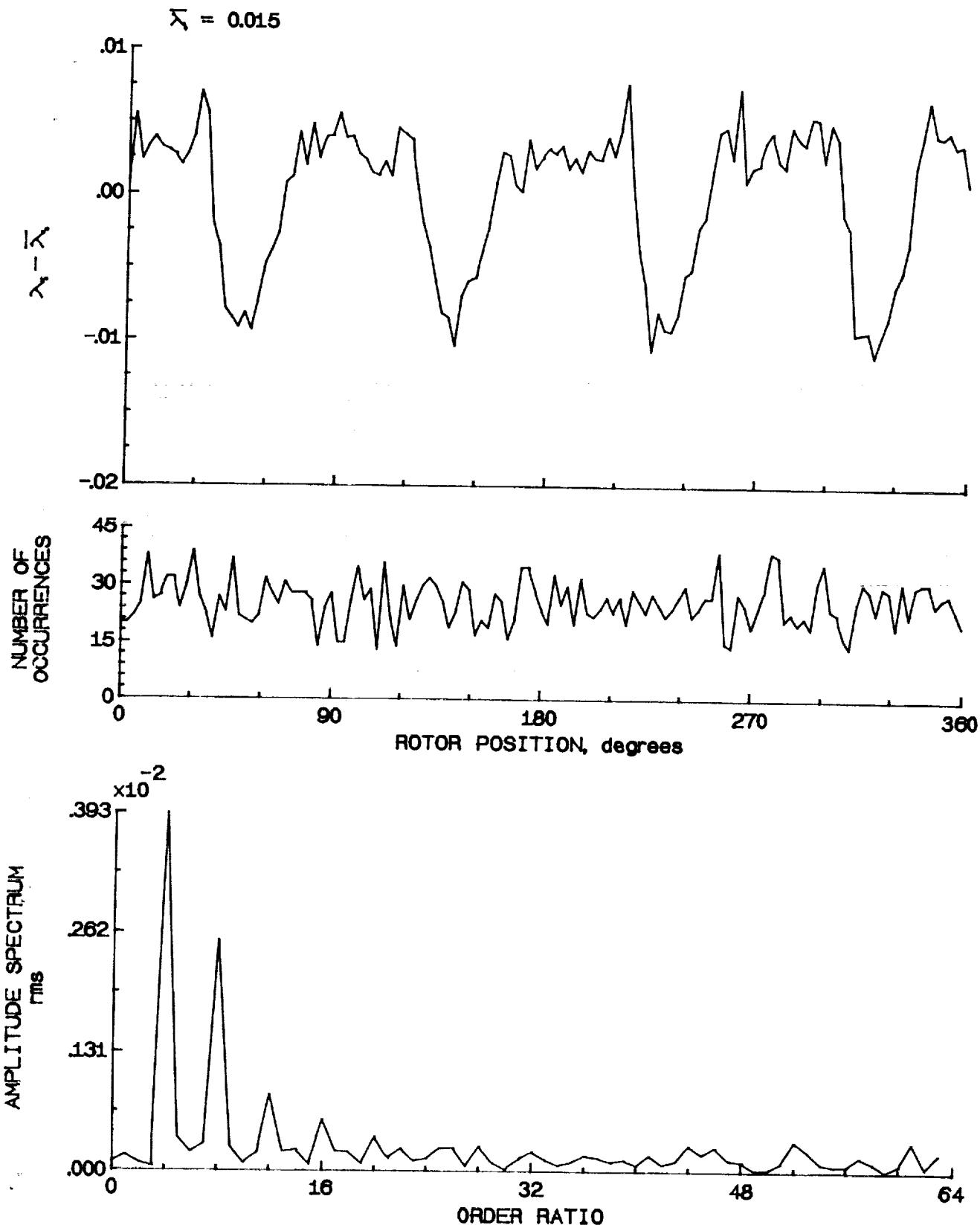


Figure 125.- Concluded.

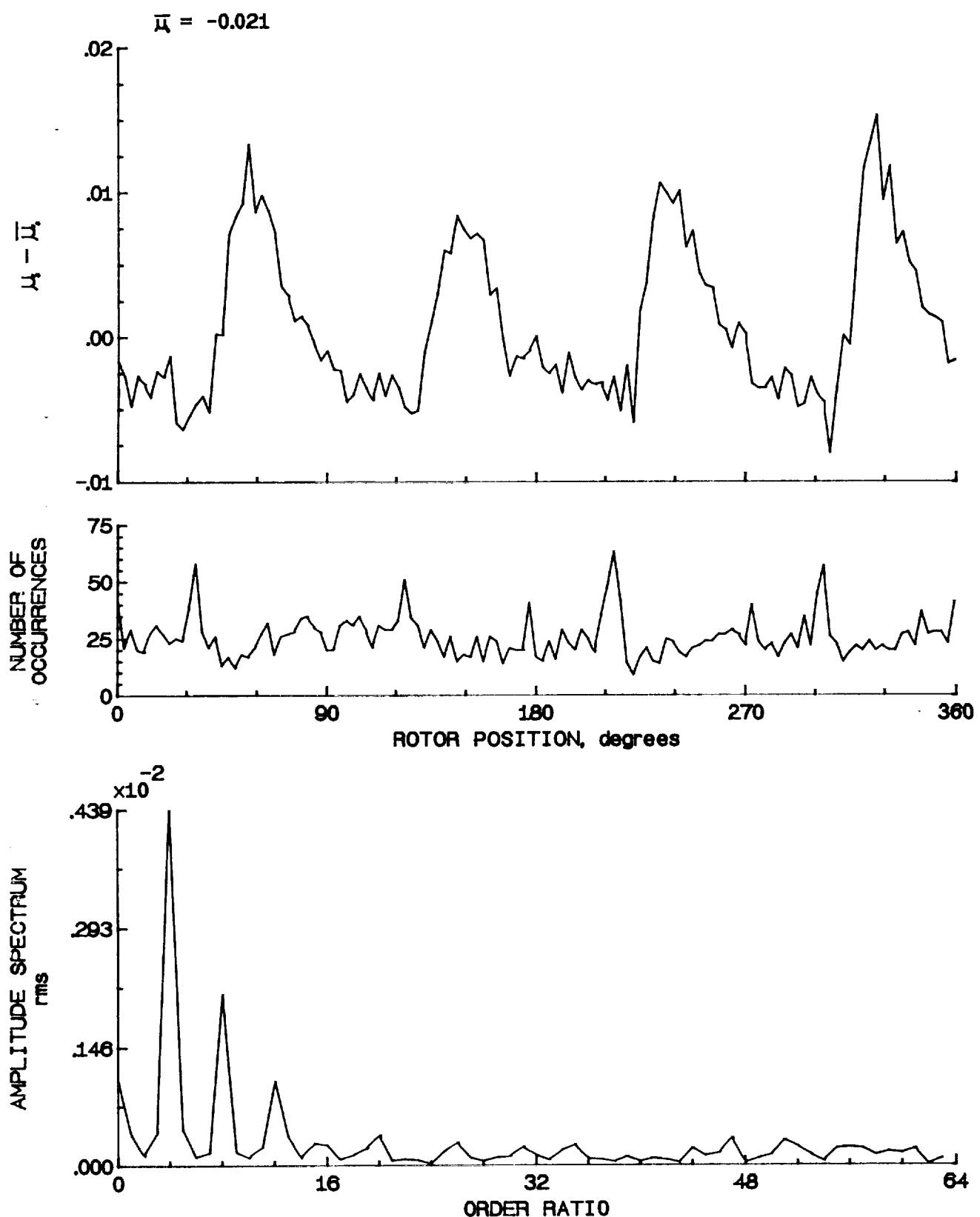


Figure 126.- Induced inflow velocity measured at 210 degrees and r/R of 0.86.

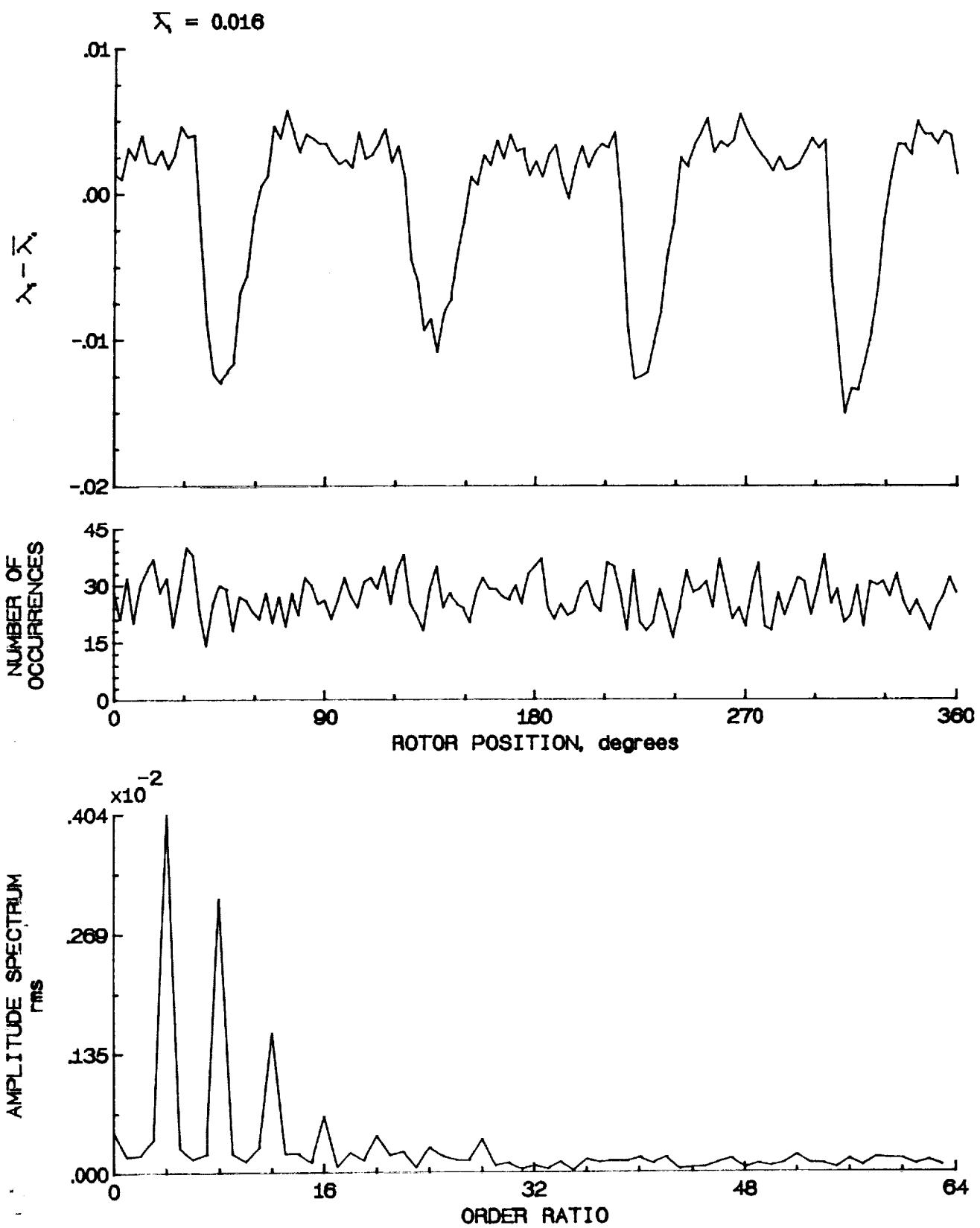


Figure 126.- Concluded.

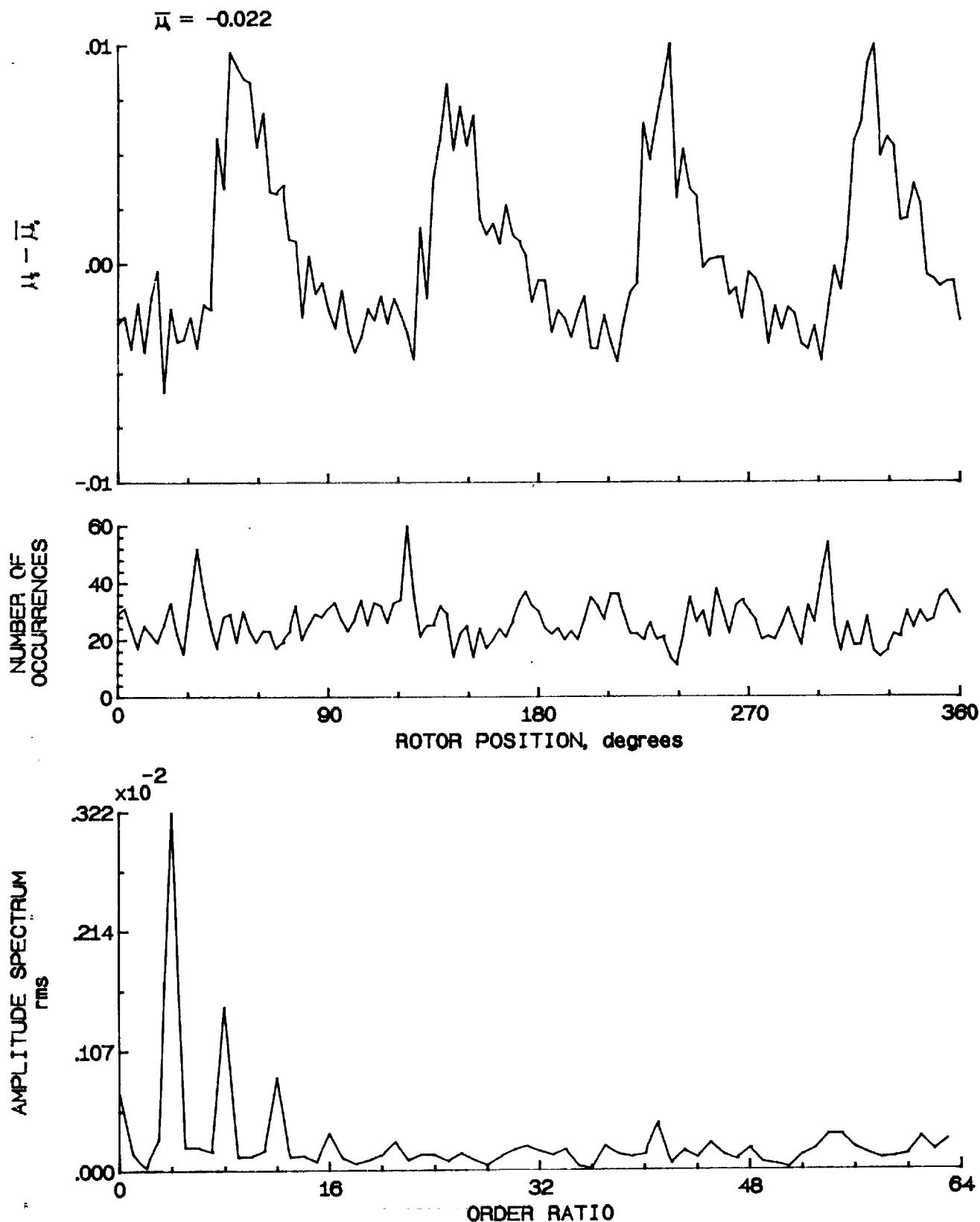


Figure 127.- Induced inflow velocity measured at 210 degrees and r/R of 0.90.

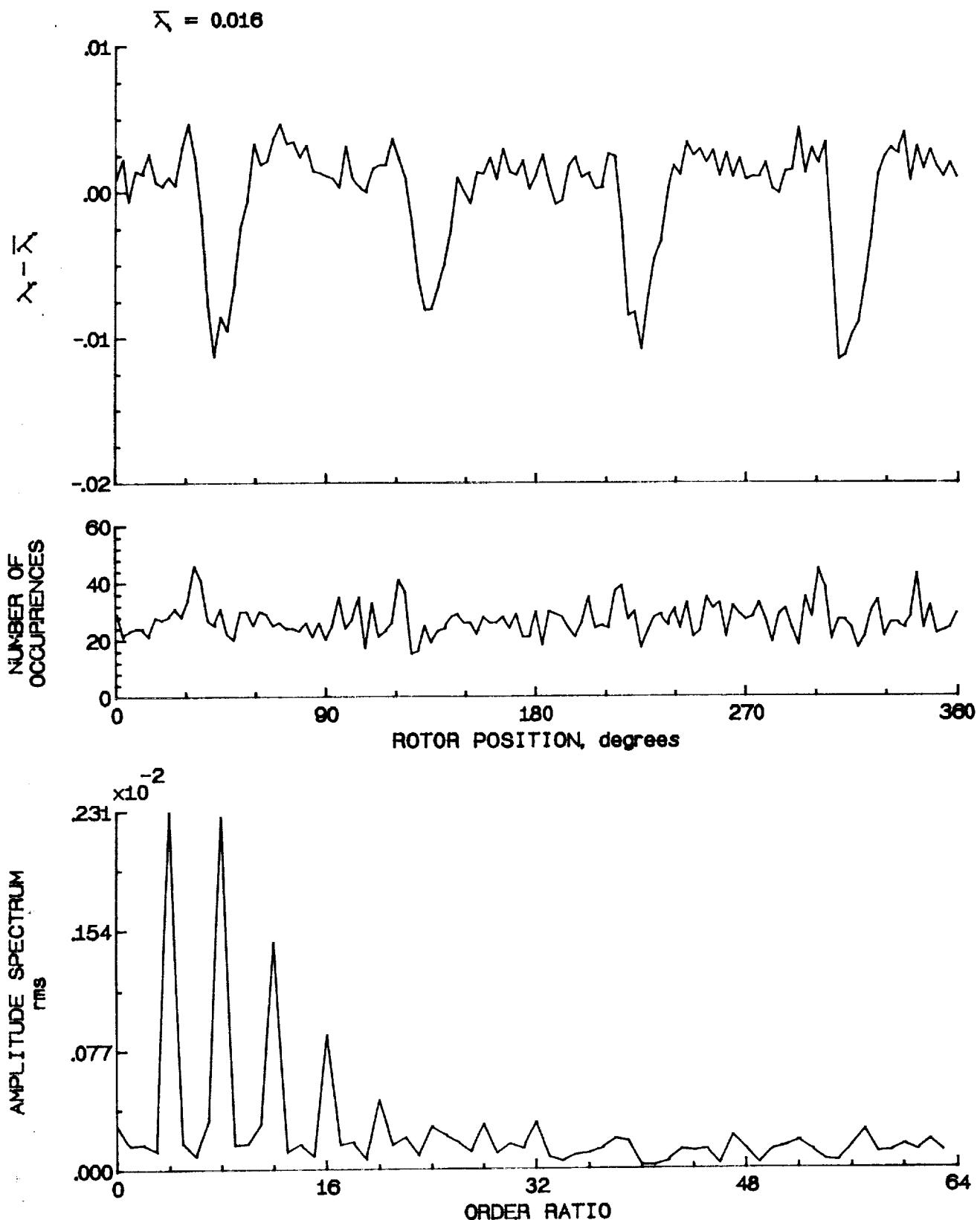


Figure 127.- Concluded.

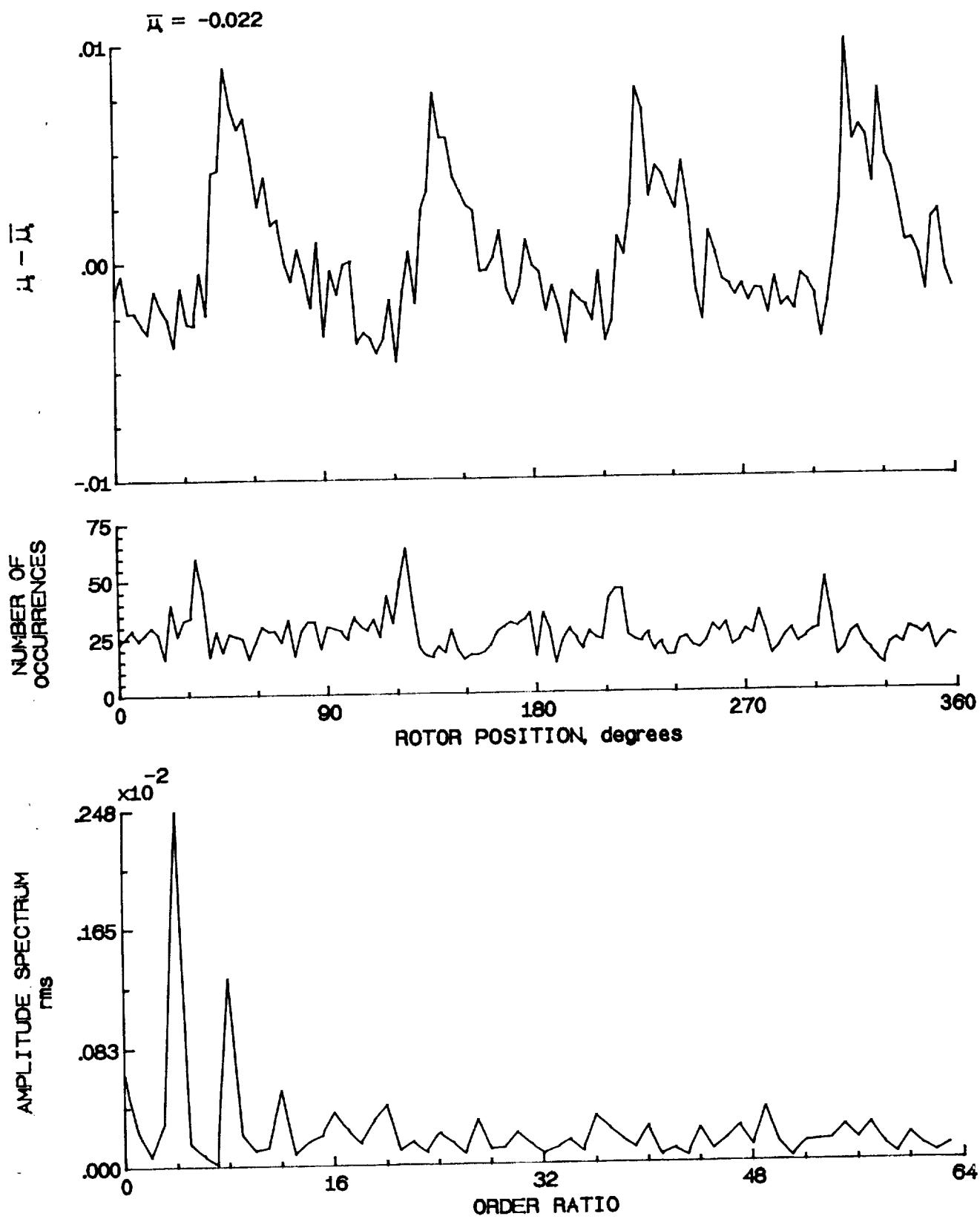


Figure 128.- Induced inflow velocity measured at 210 degrees and r/R of 0.94.

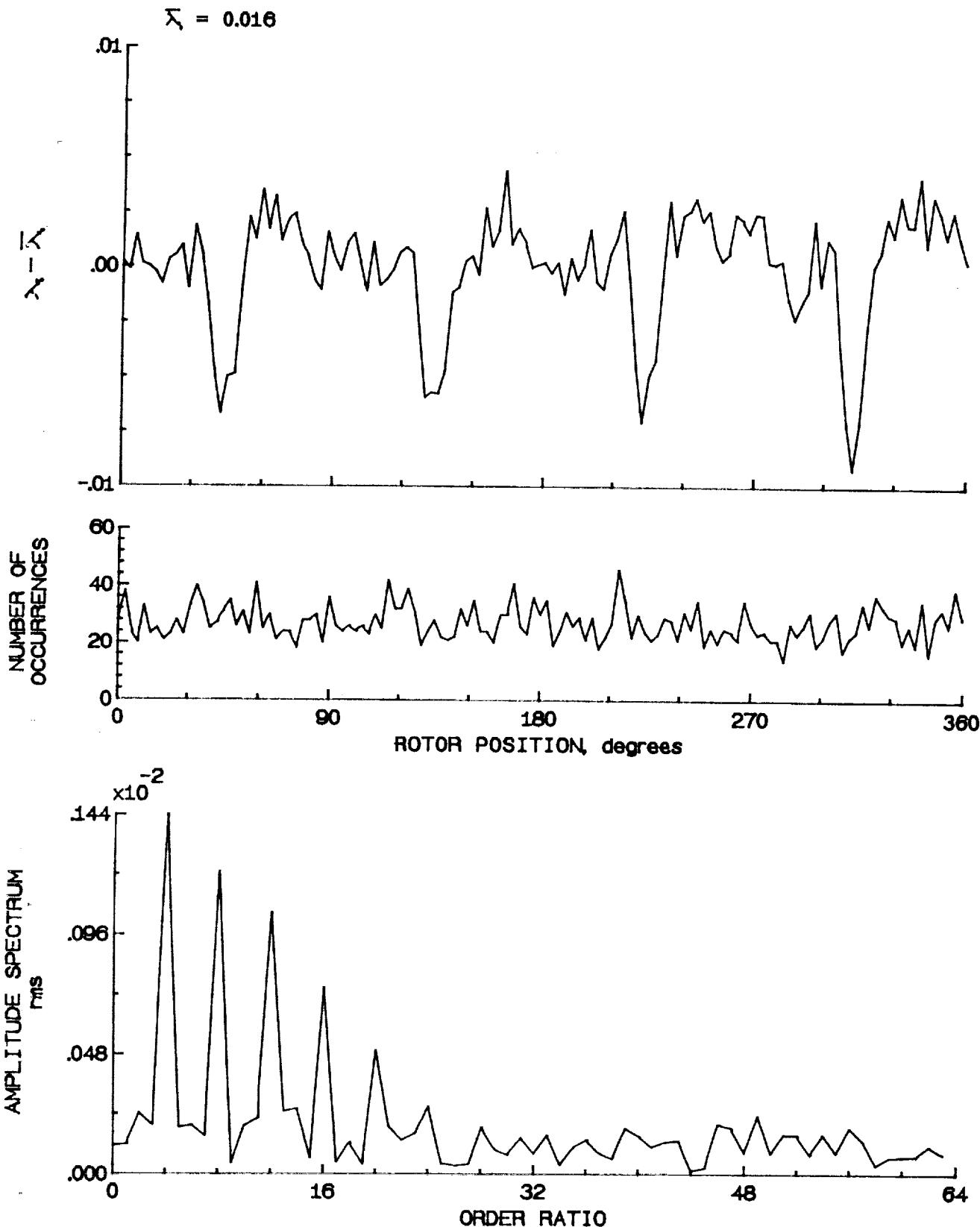


Figure 128.- Concluded.

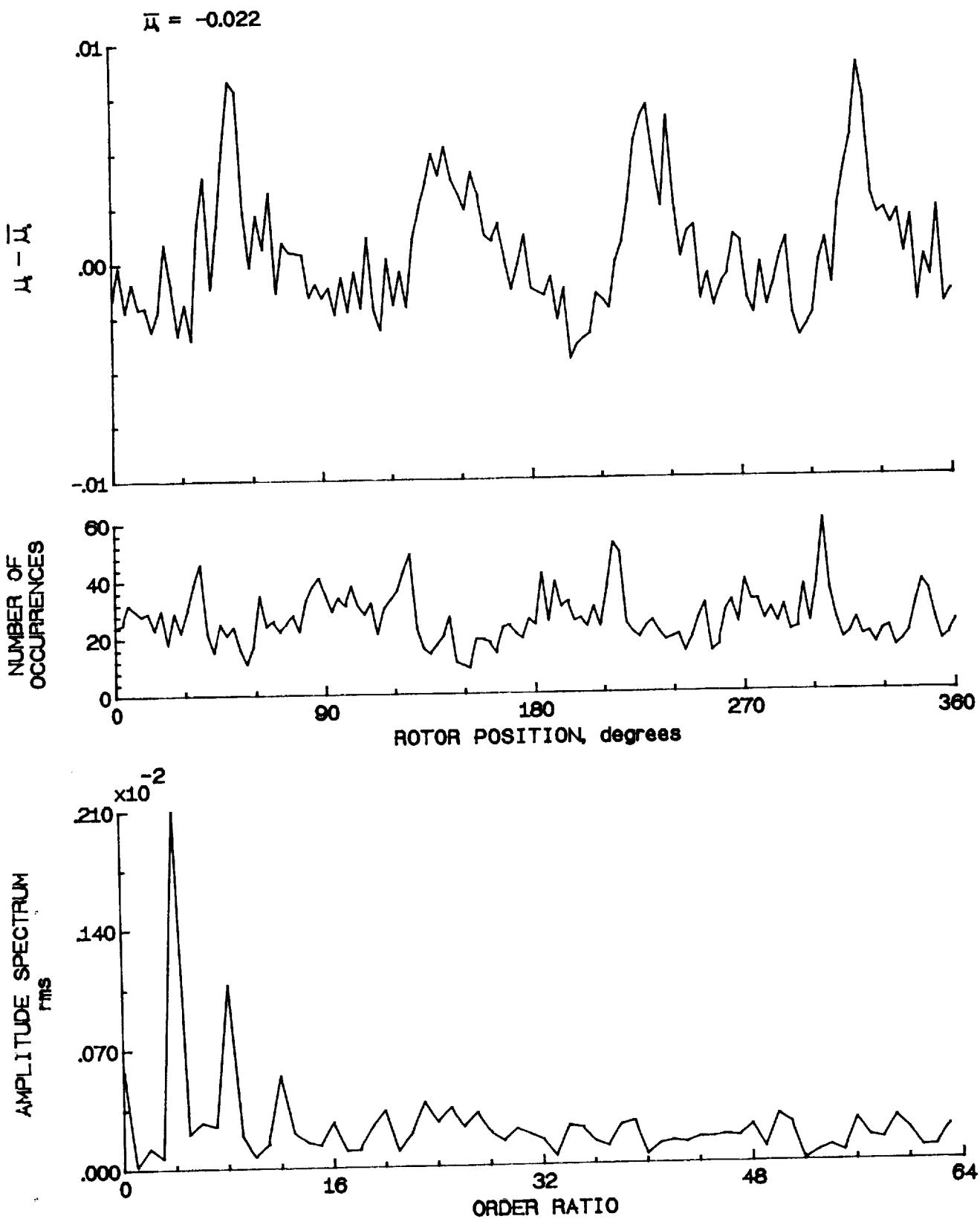


Figure 129.- Induced inflow velocity measured at 210 degrees and r/R of 0.96.

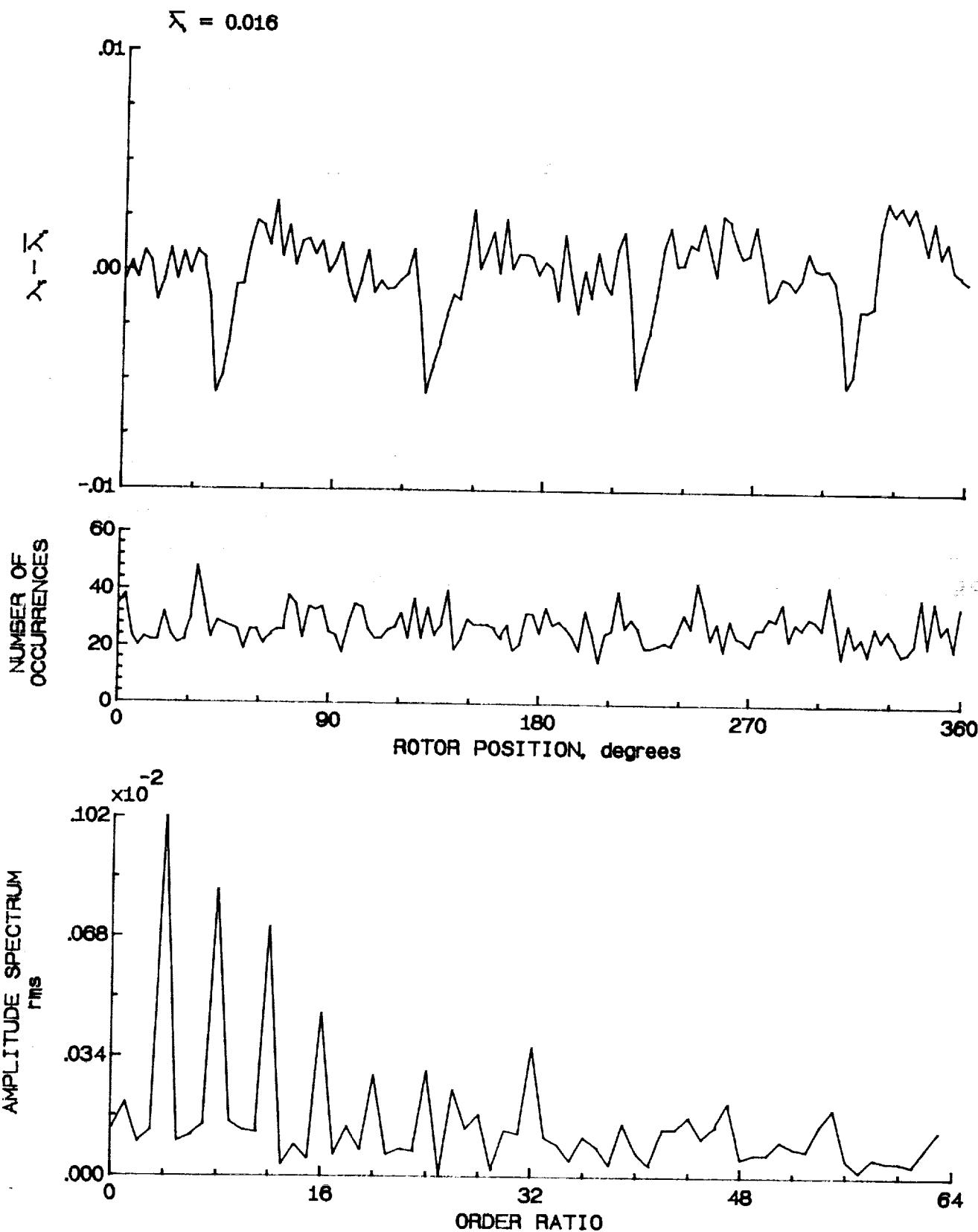


Figure 129.- Concluded.

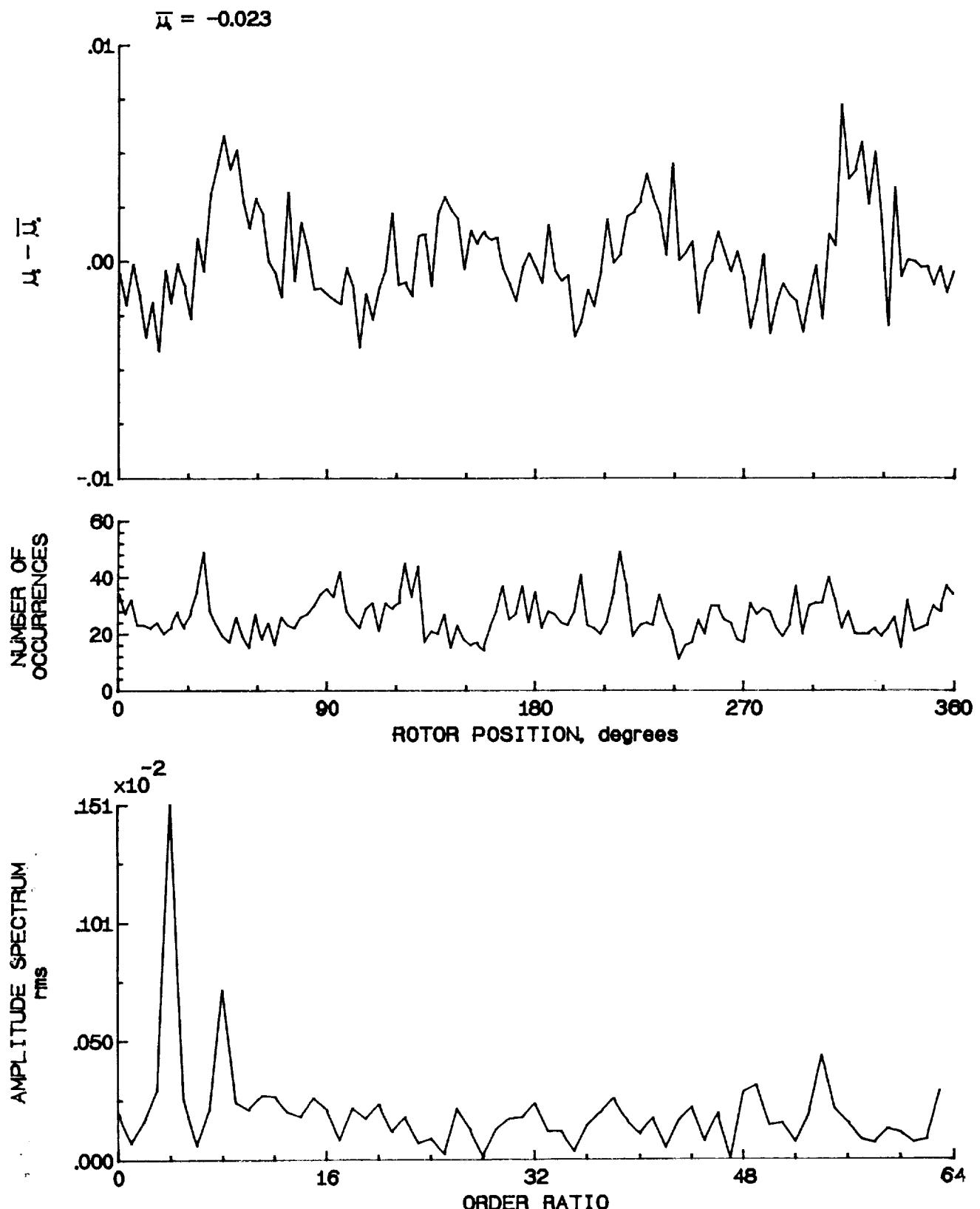


Figure 130.- Induced inflow velocity measured at 210 degrees and r/R of 1.00.

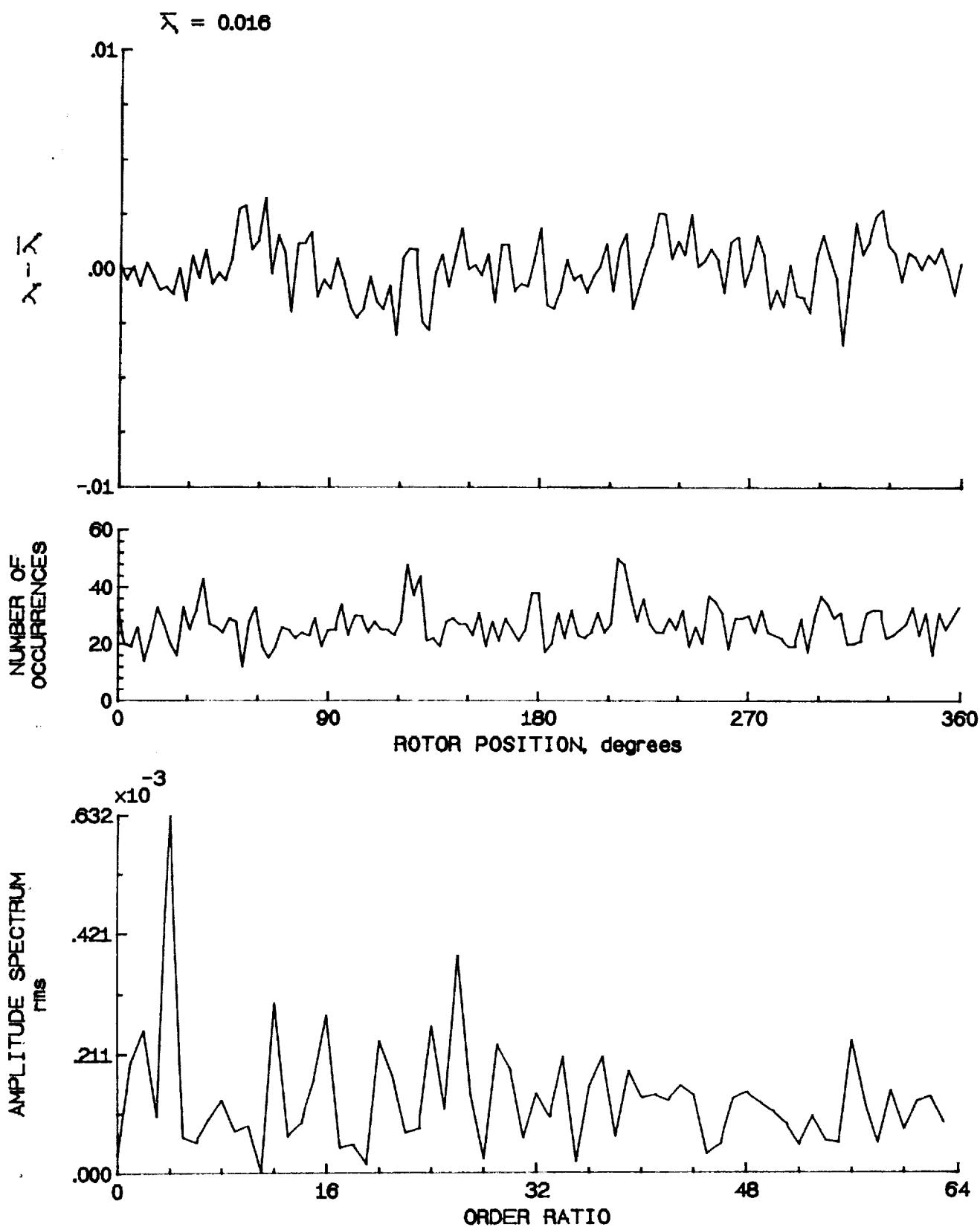


Figure 130.- Concluded.

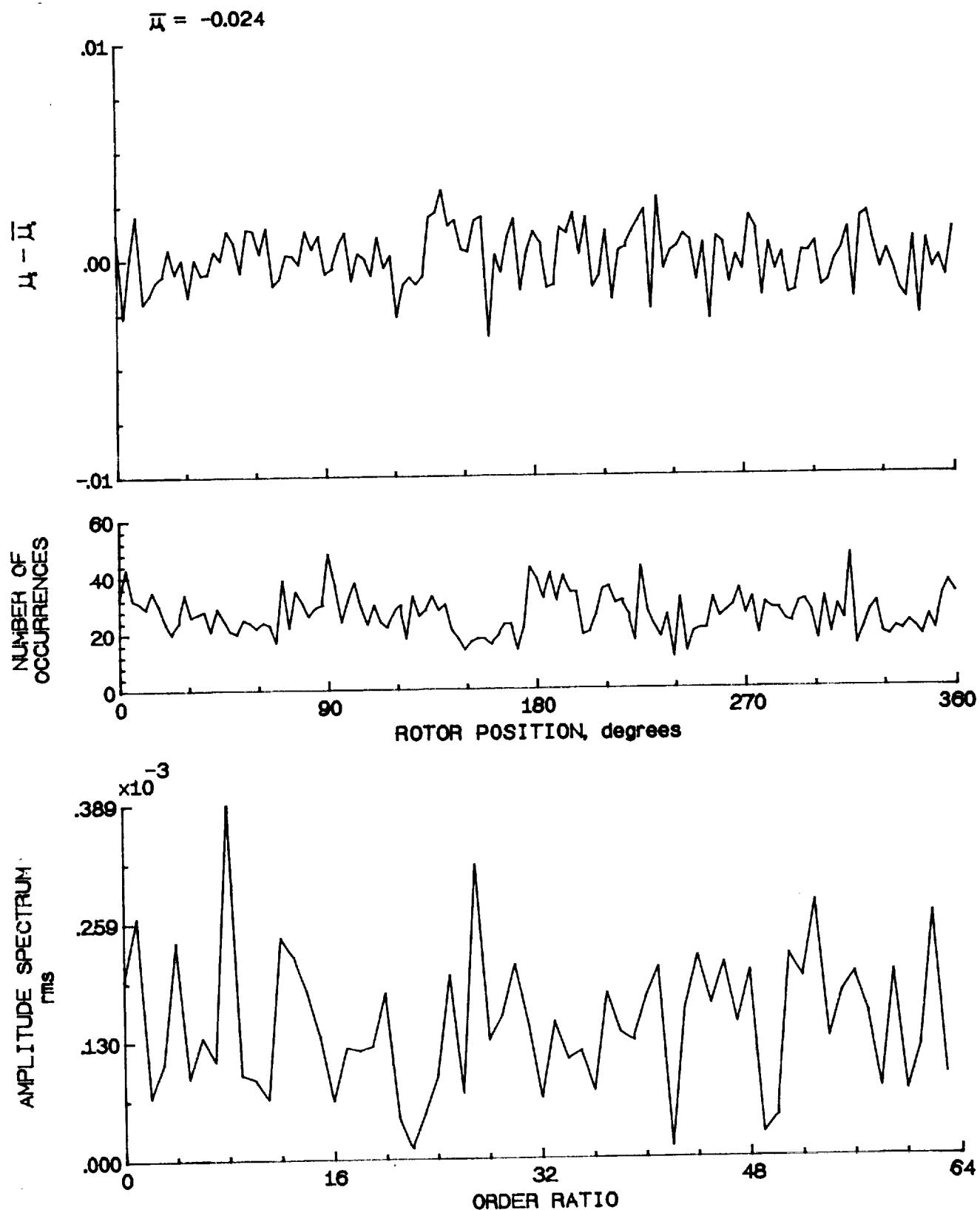


Figure 131.- Induced inflow velocity measured at 210 degrees and r/R of 1.10.

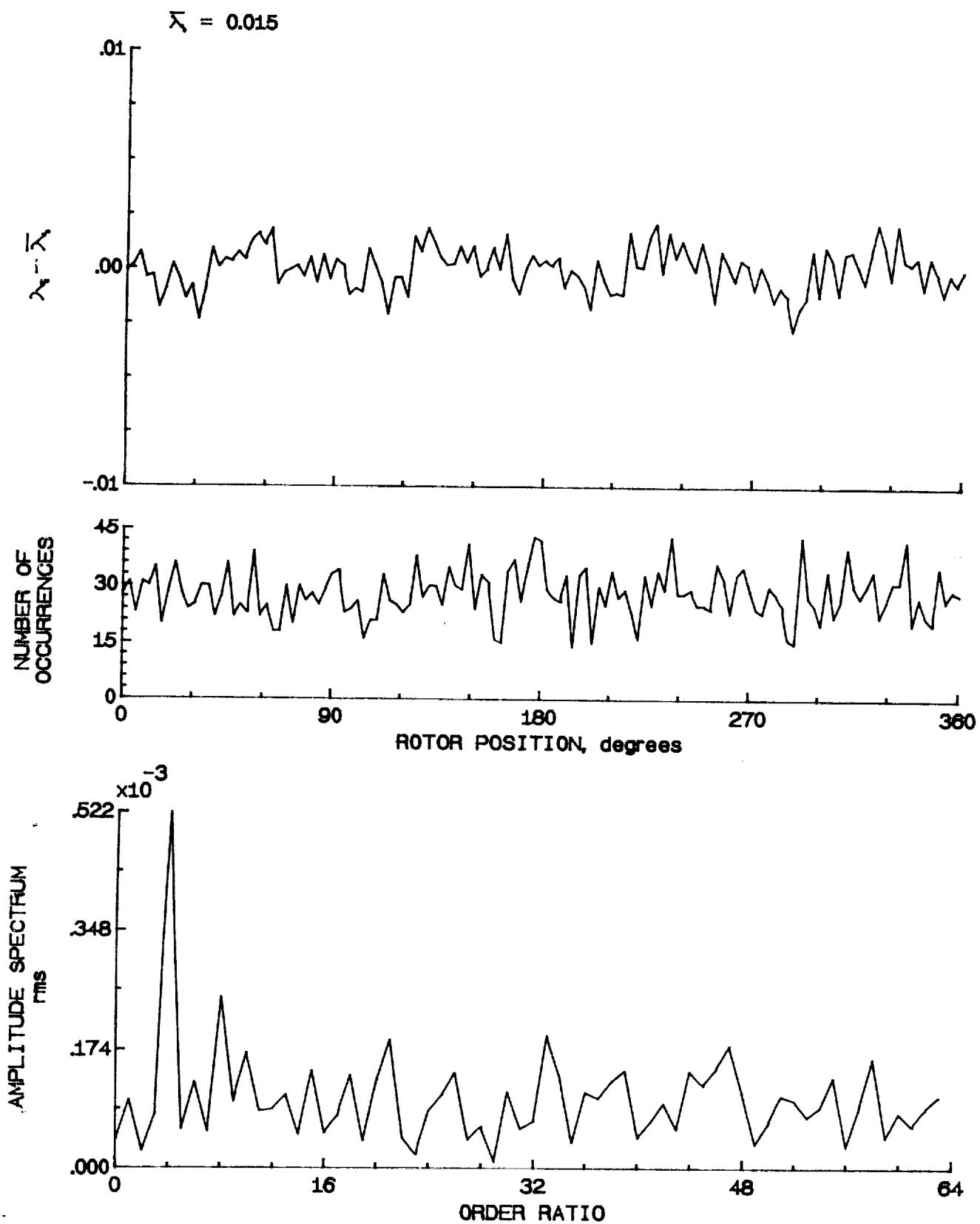


Figure 131.- Concluded.

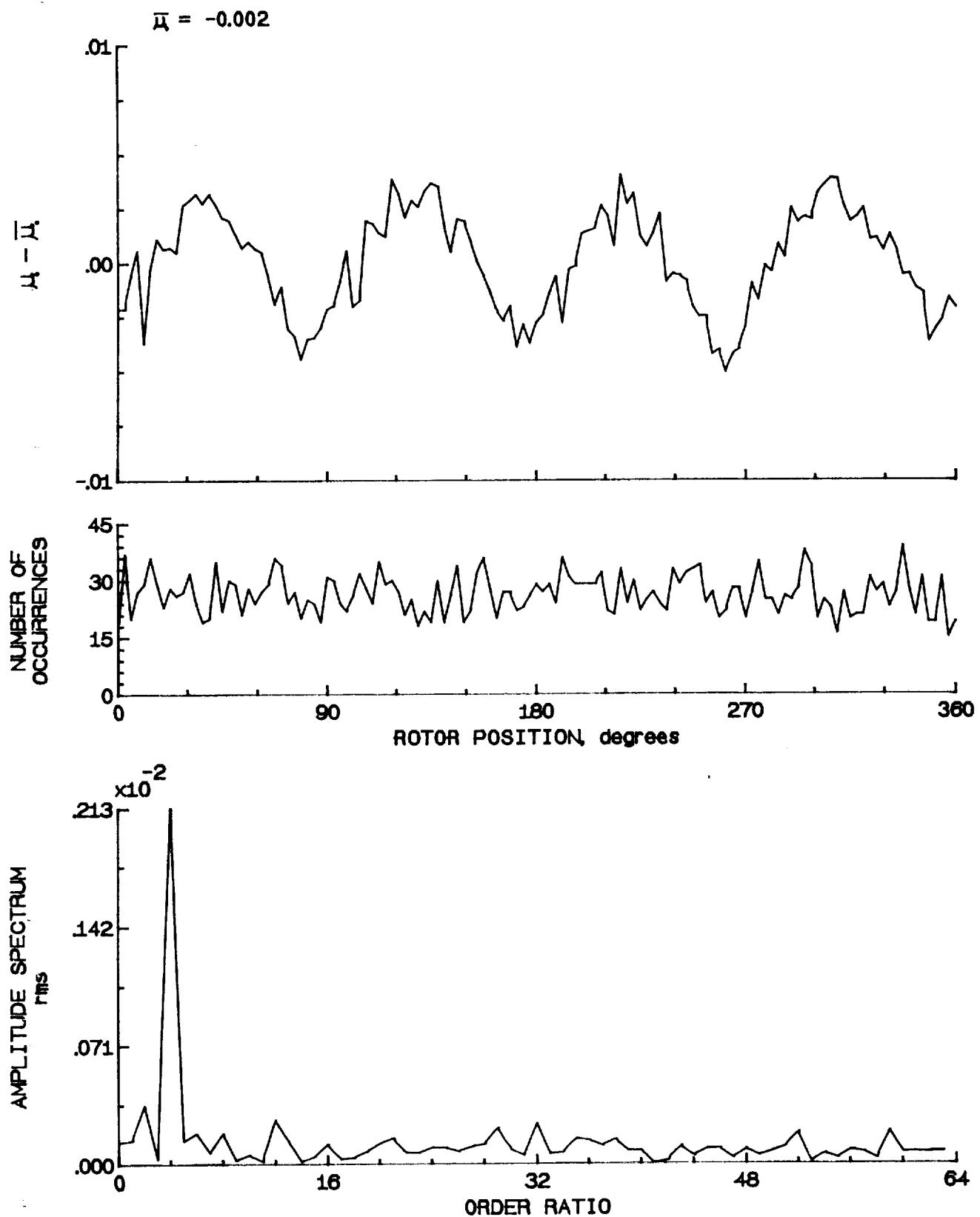


Figure 132.- Induced inflow velocity measured at 240 degrees and r/R of 0.20.

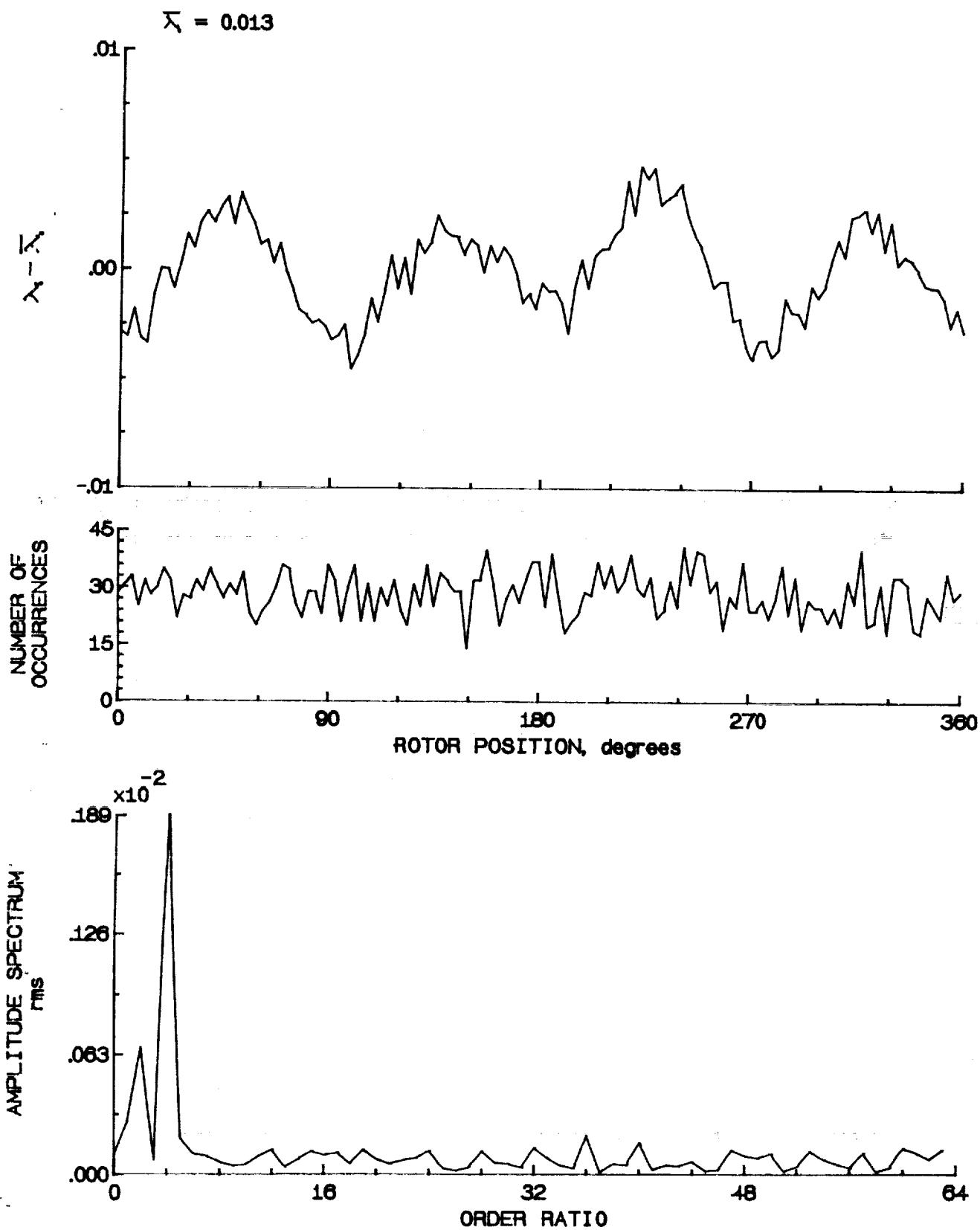


Figure 132.- Concluded.

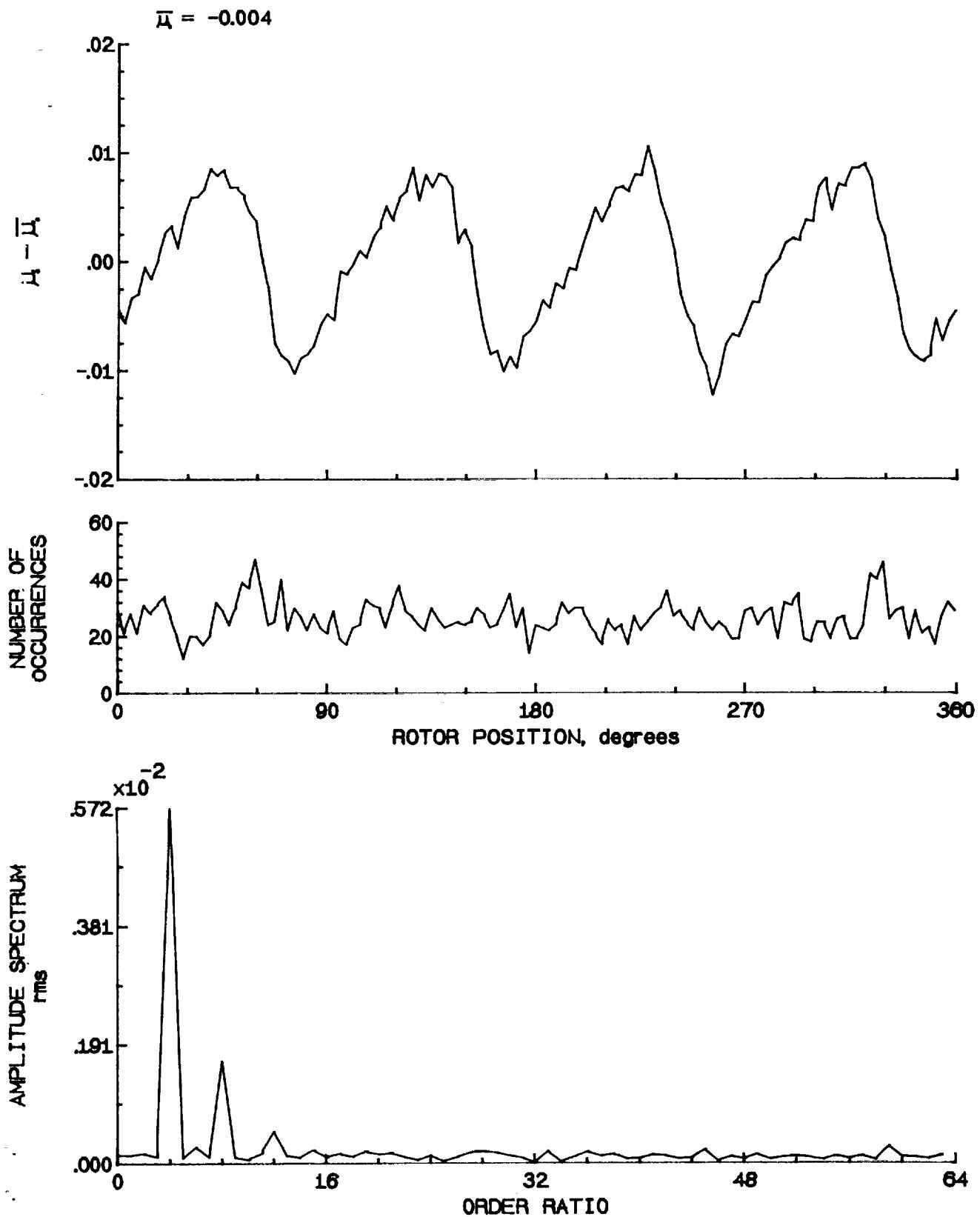


Figure 133.- Induced inflow velocity measured at 240 degrees and r/R of 0.32.

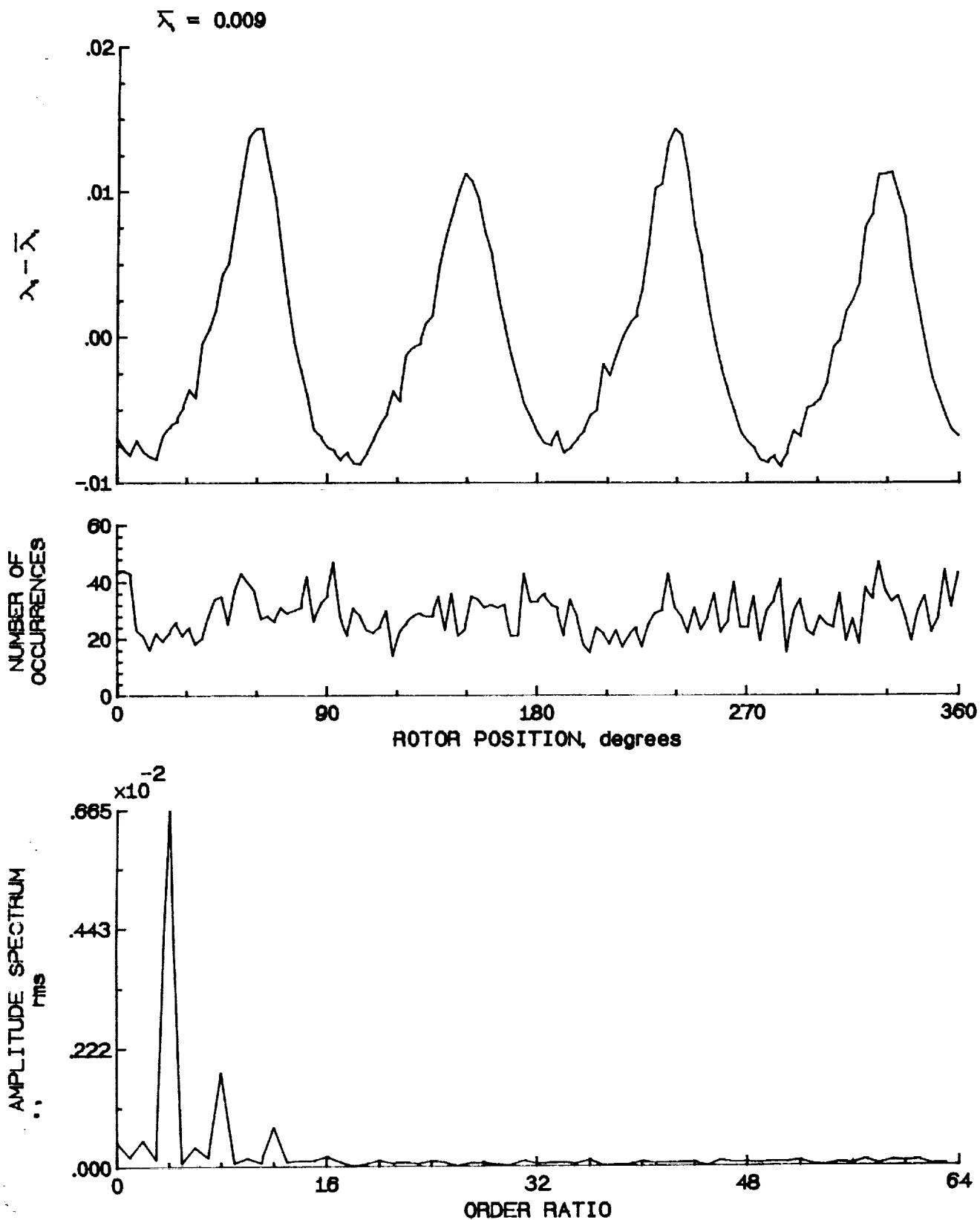


Figure 133.- Concluded.

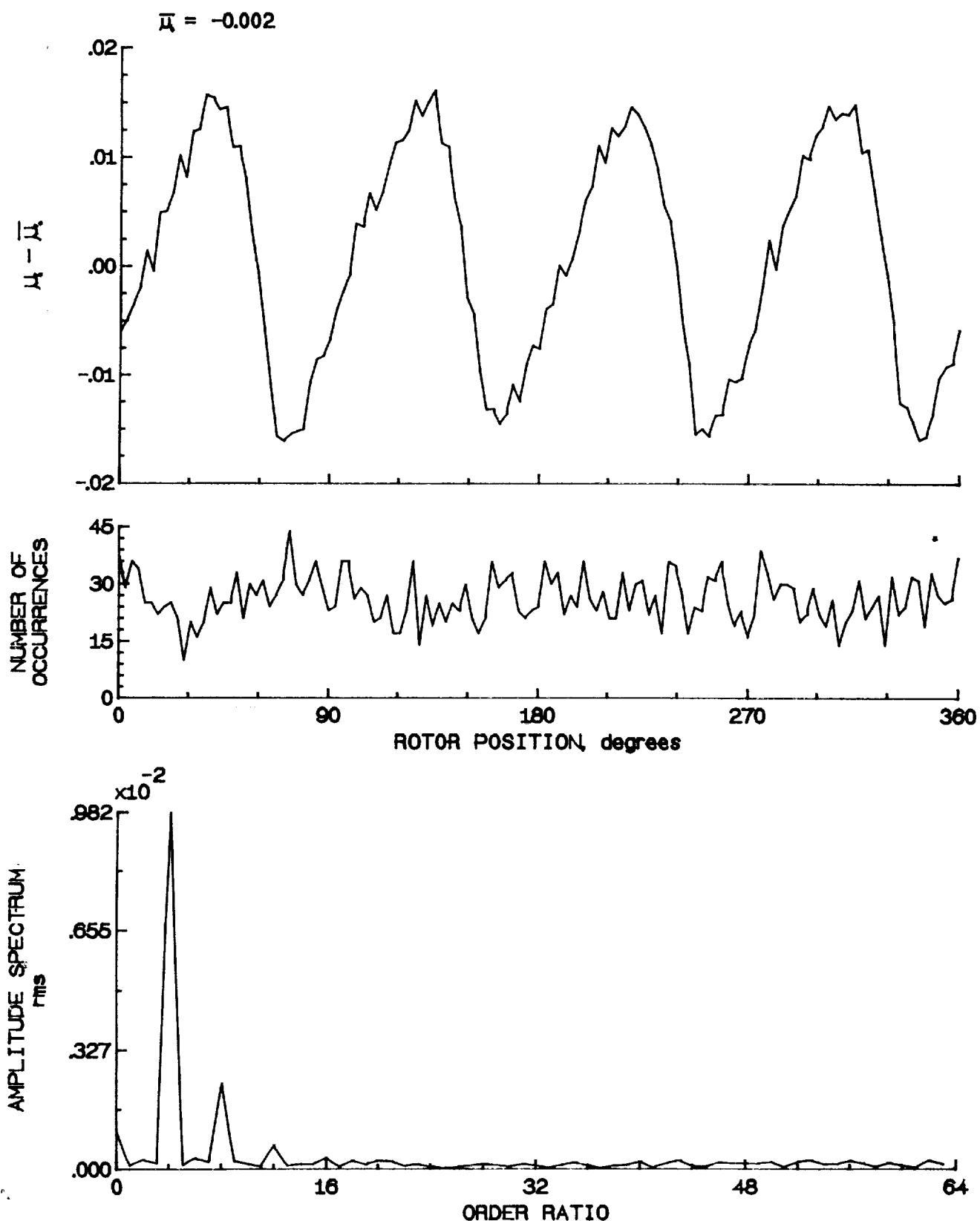


Figure 134.- Induced inflow velocity measured at 240 degrees and r/R of 0.50.

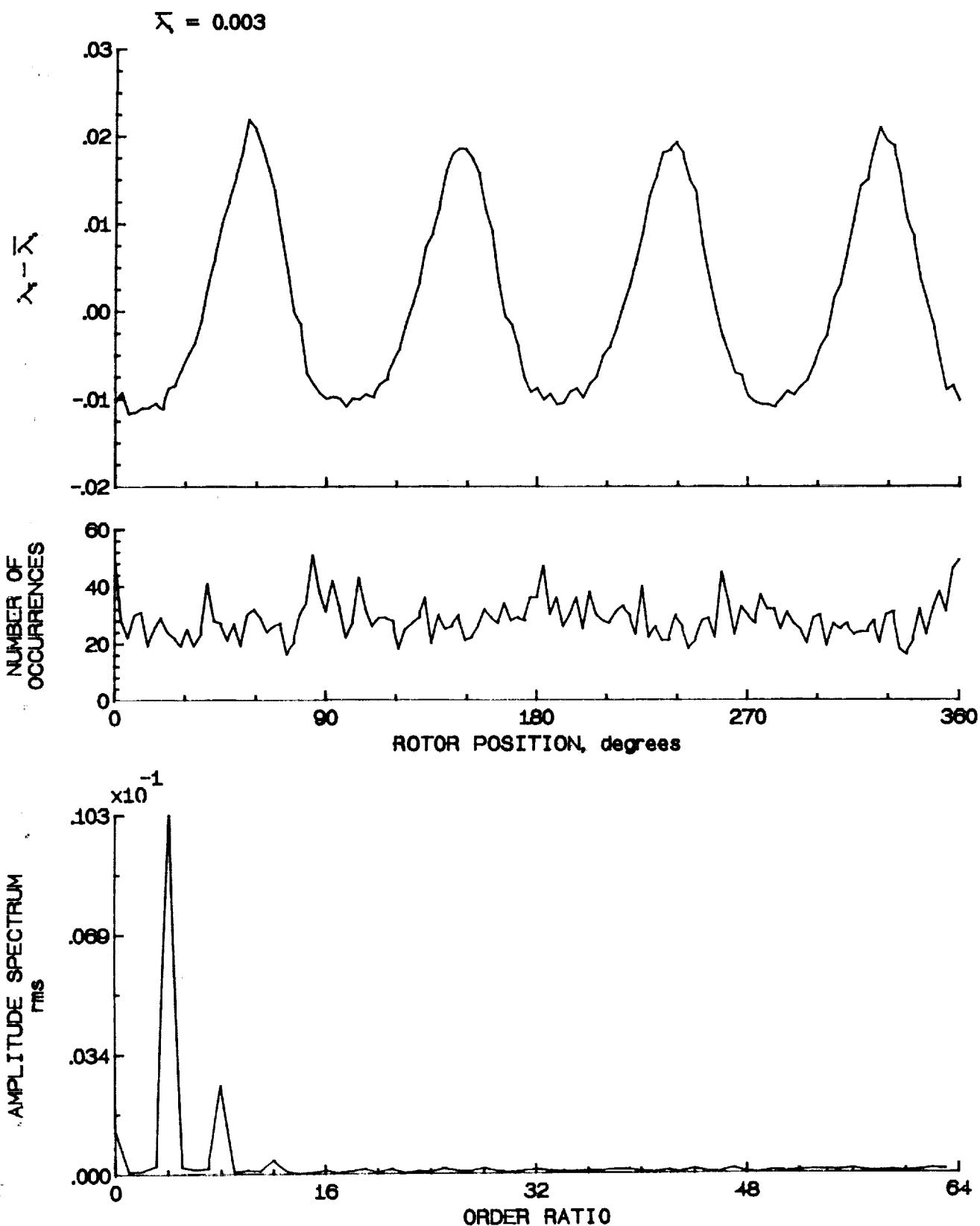


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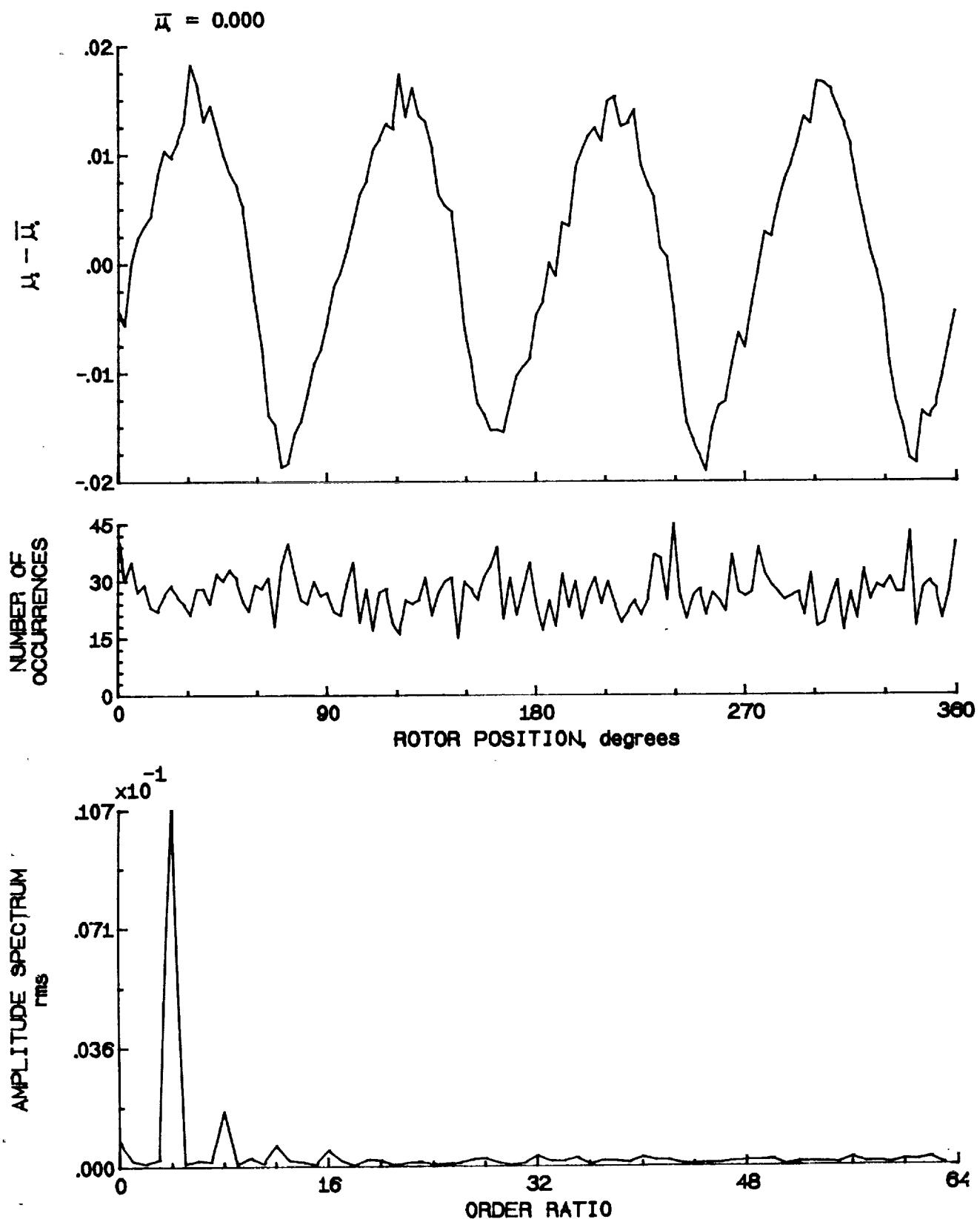


Figure 135.— Induced inflow velocity measured at 240 degrees and r/R of 0.58.

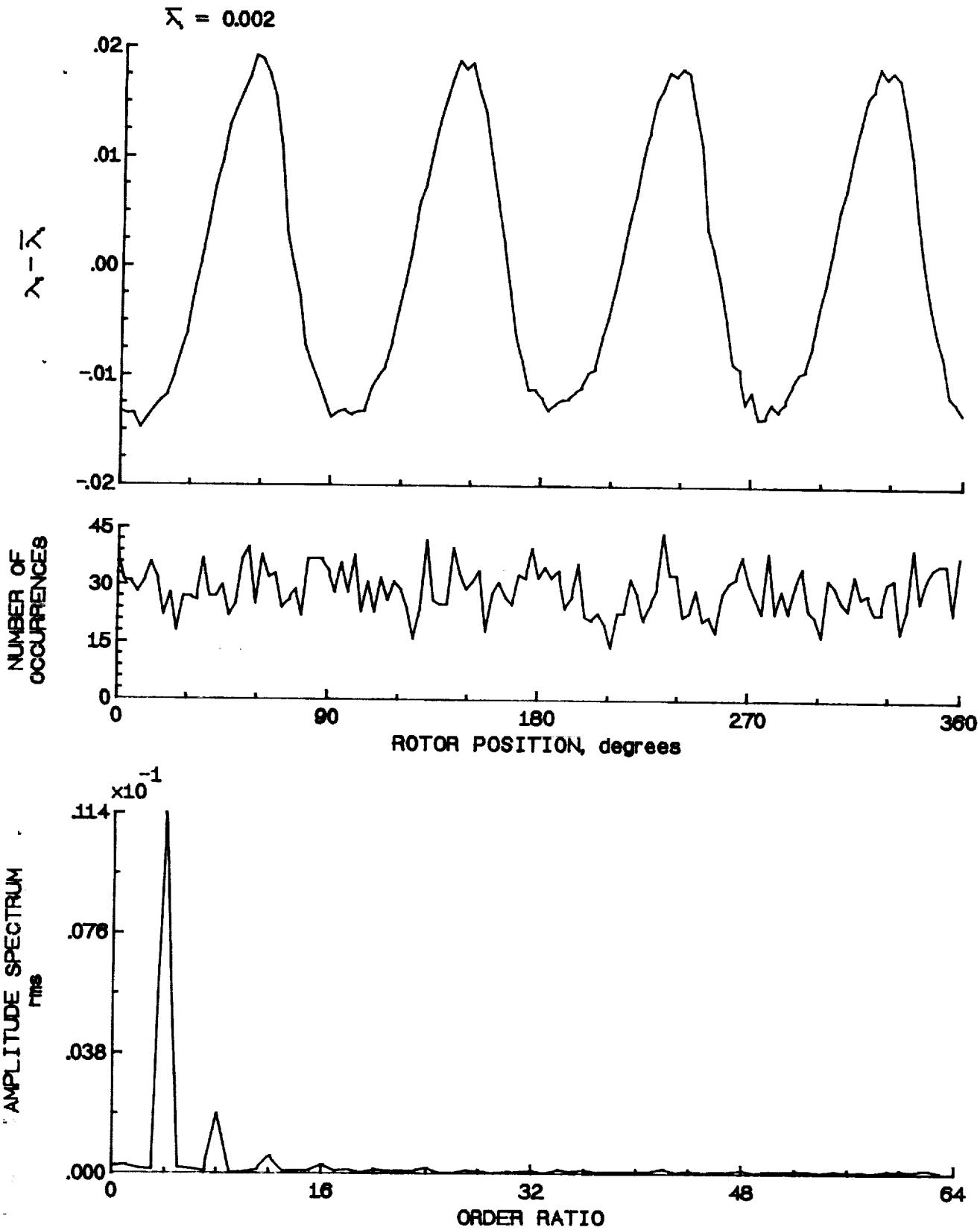


Figure 135.- Concluded.

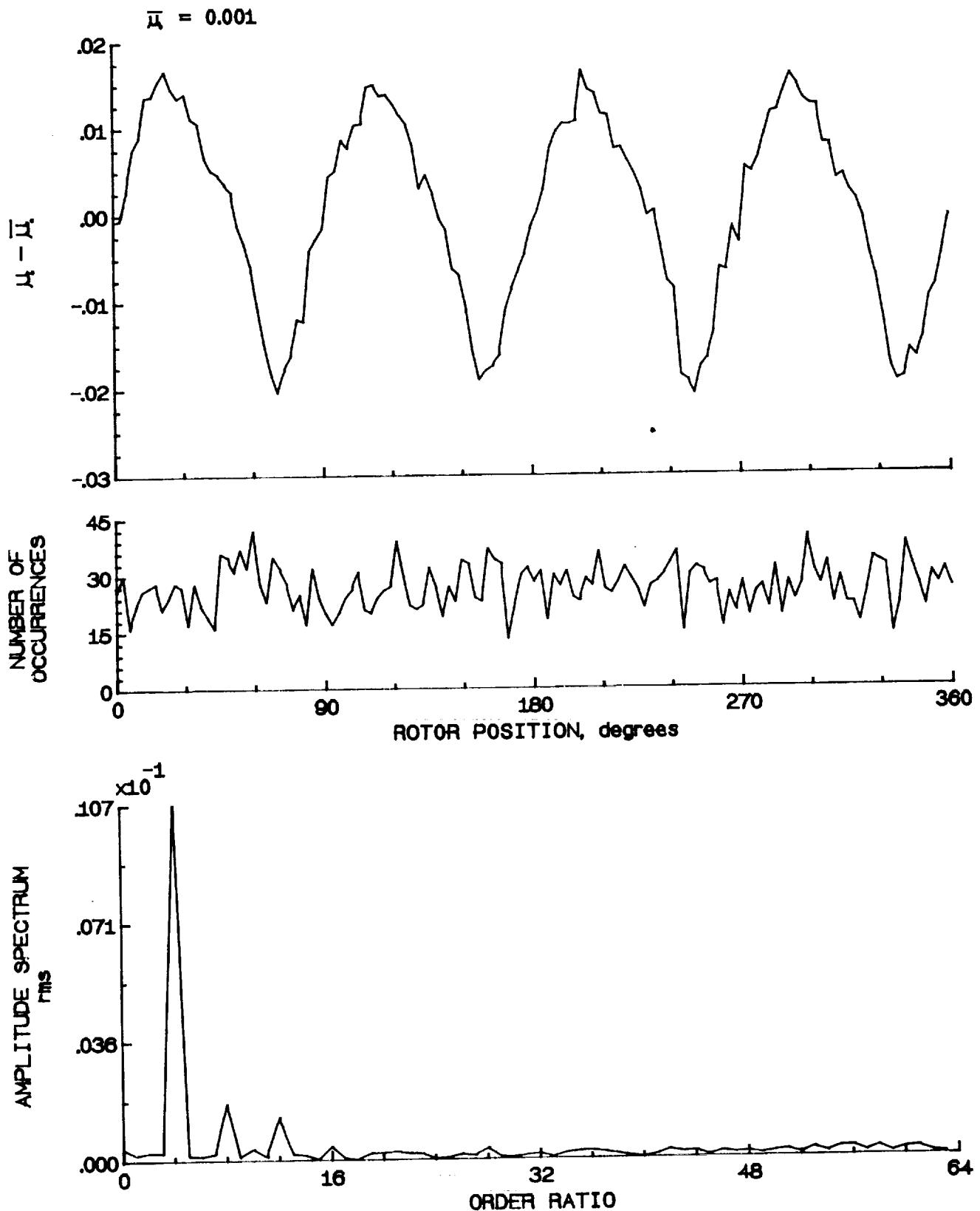


Figure 136.- Induced inflow velocity measured at 240 degrees and r/R of 0.69.

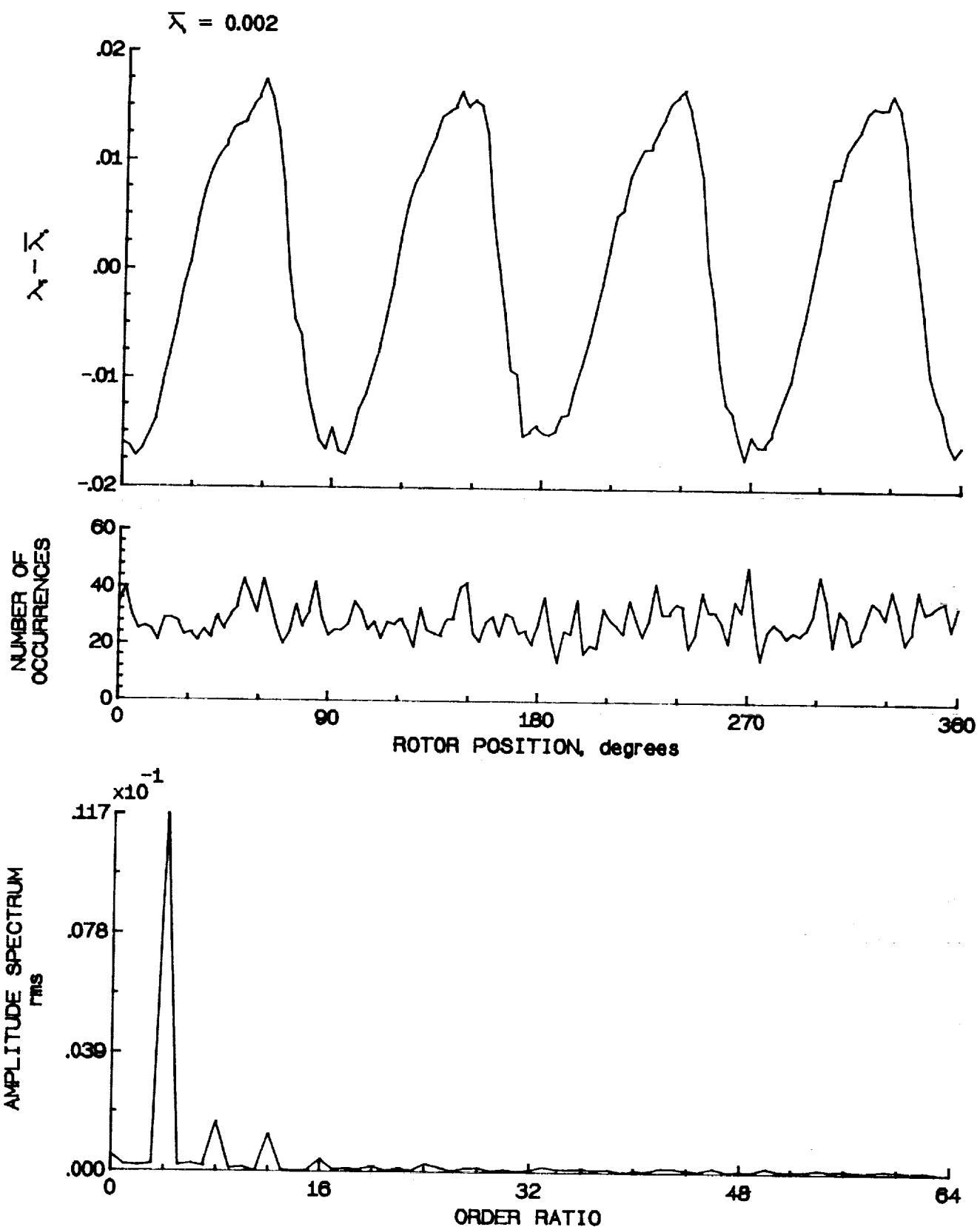


Figure 136.- Concluded.

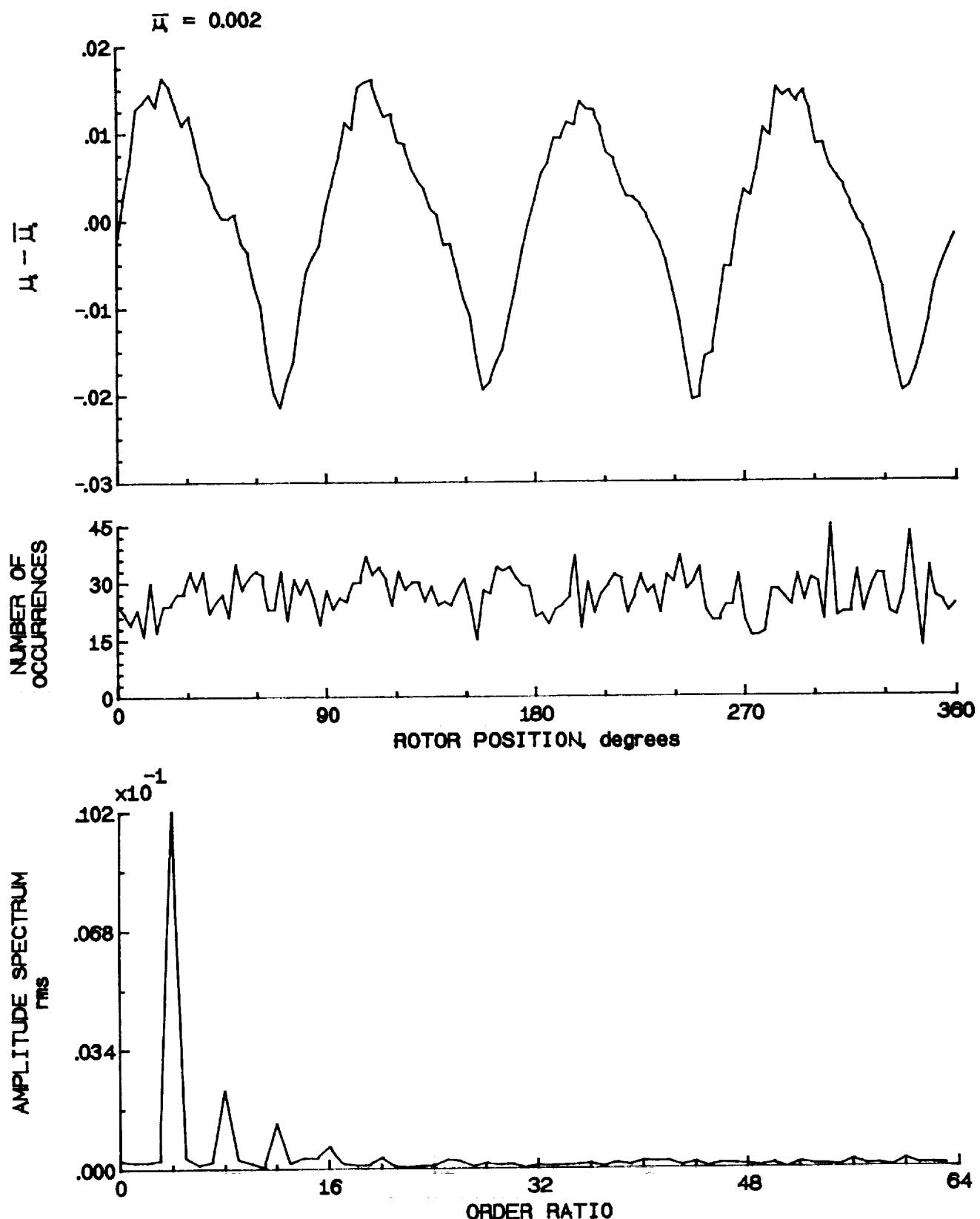


Figure 137.- Induced inflow velocity measured at 240 degrees and r/R of 0.73.

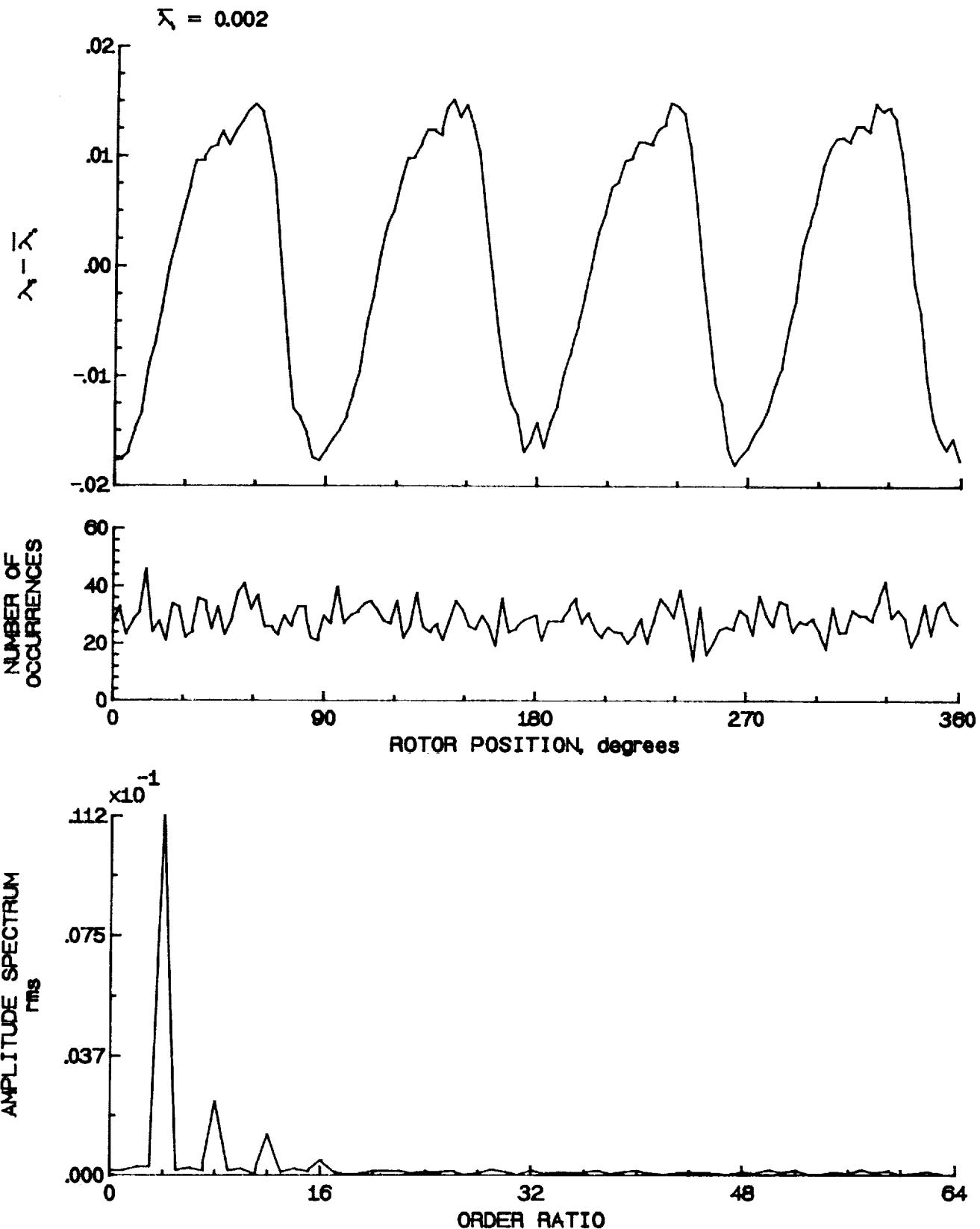


Figure 137.- Concluded.

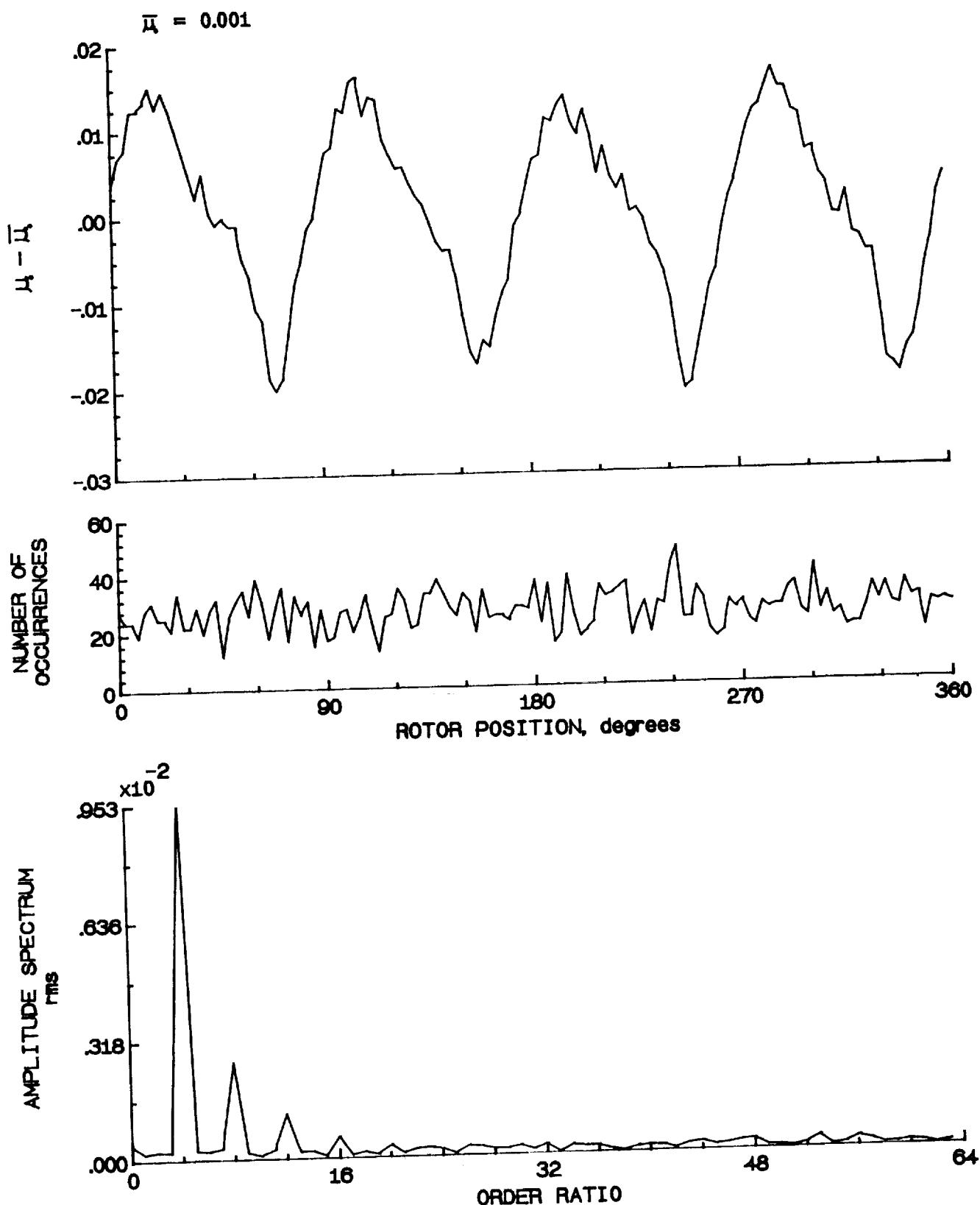


Figure 138.- Induced inflow velocity measured at 240 degrees and r/R of 0.75.

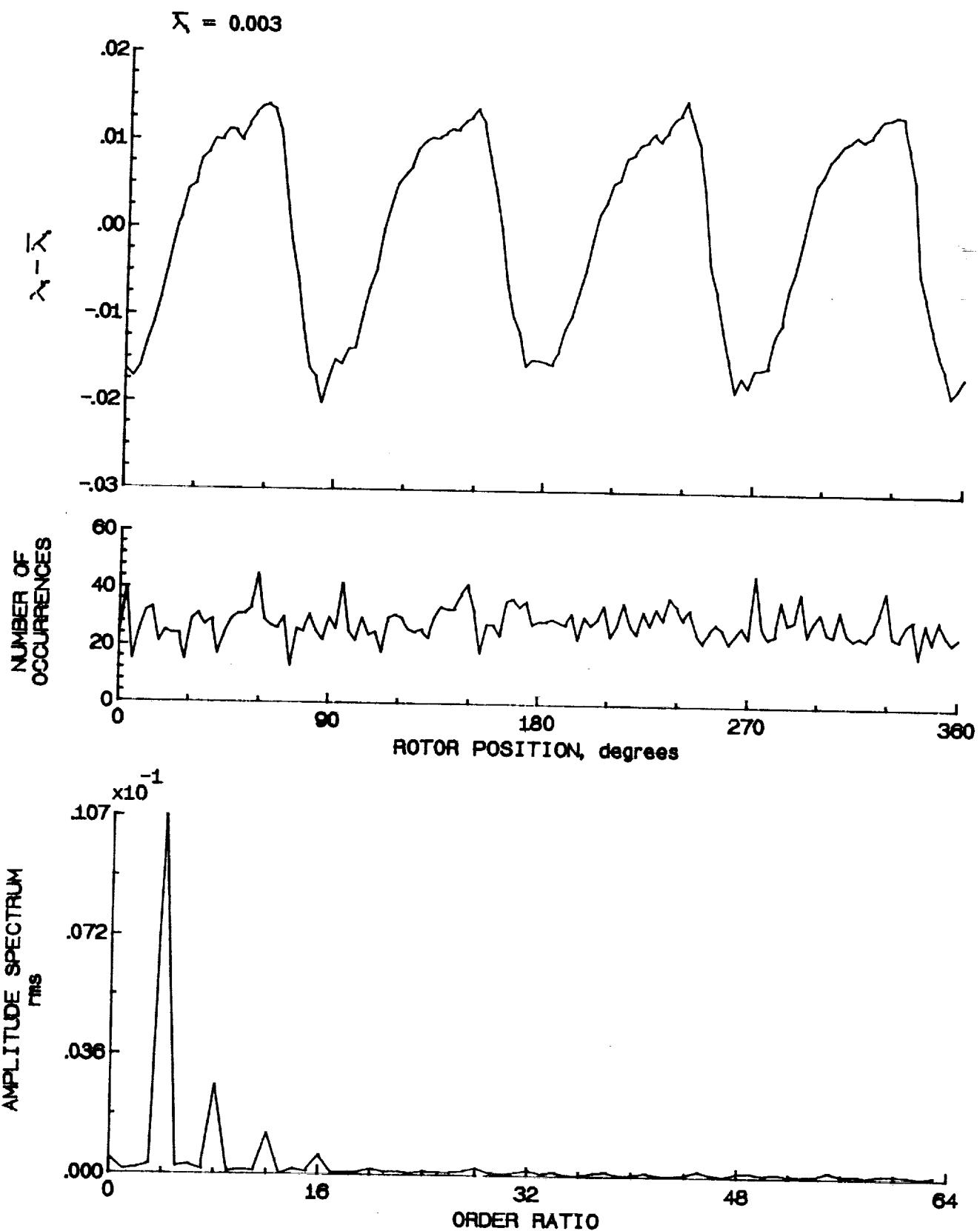


Figure 138.- Concluded

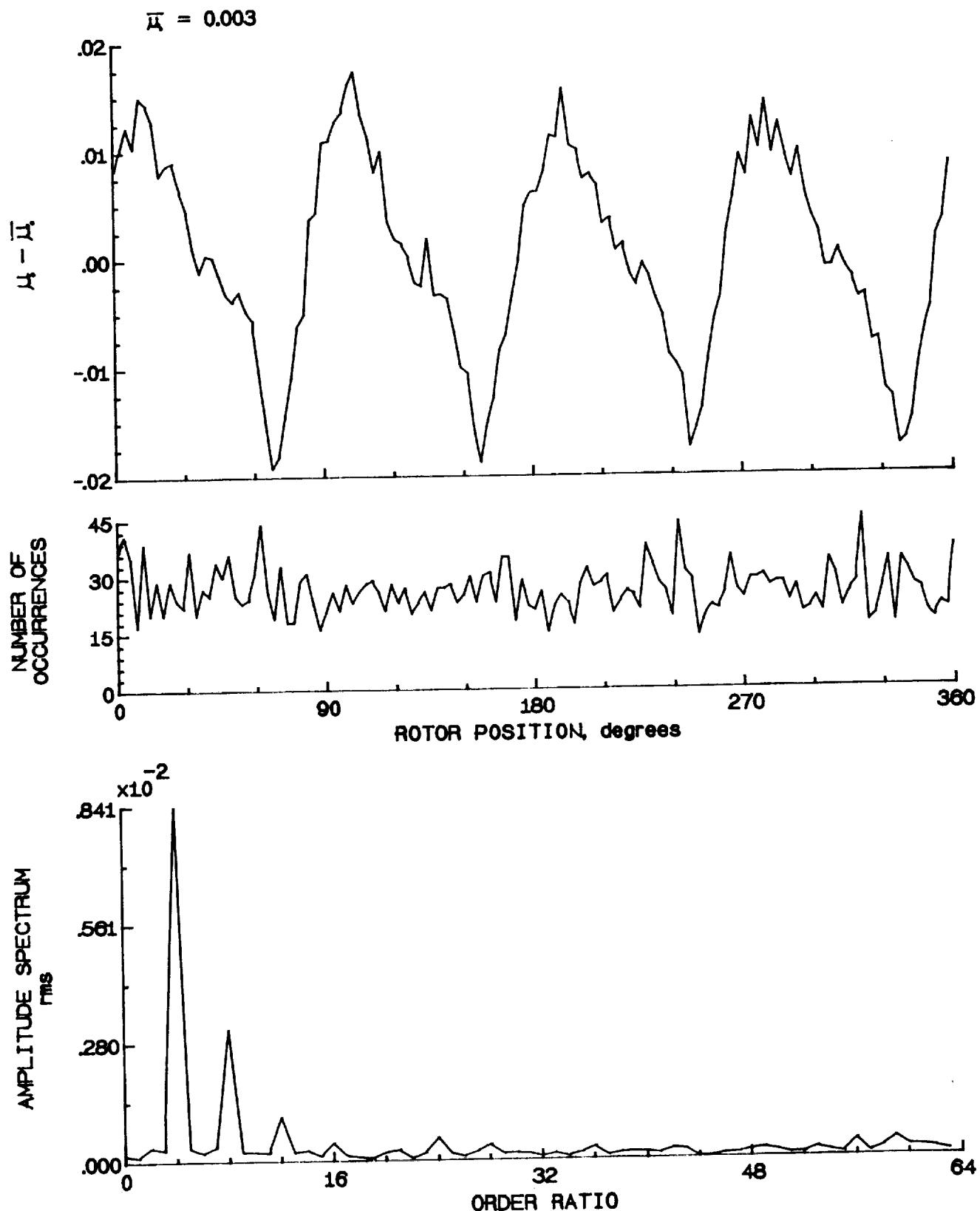


Figure 139.- Induced inflow velocity measured at 240 degrees and r/R of 0.81.

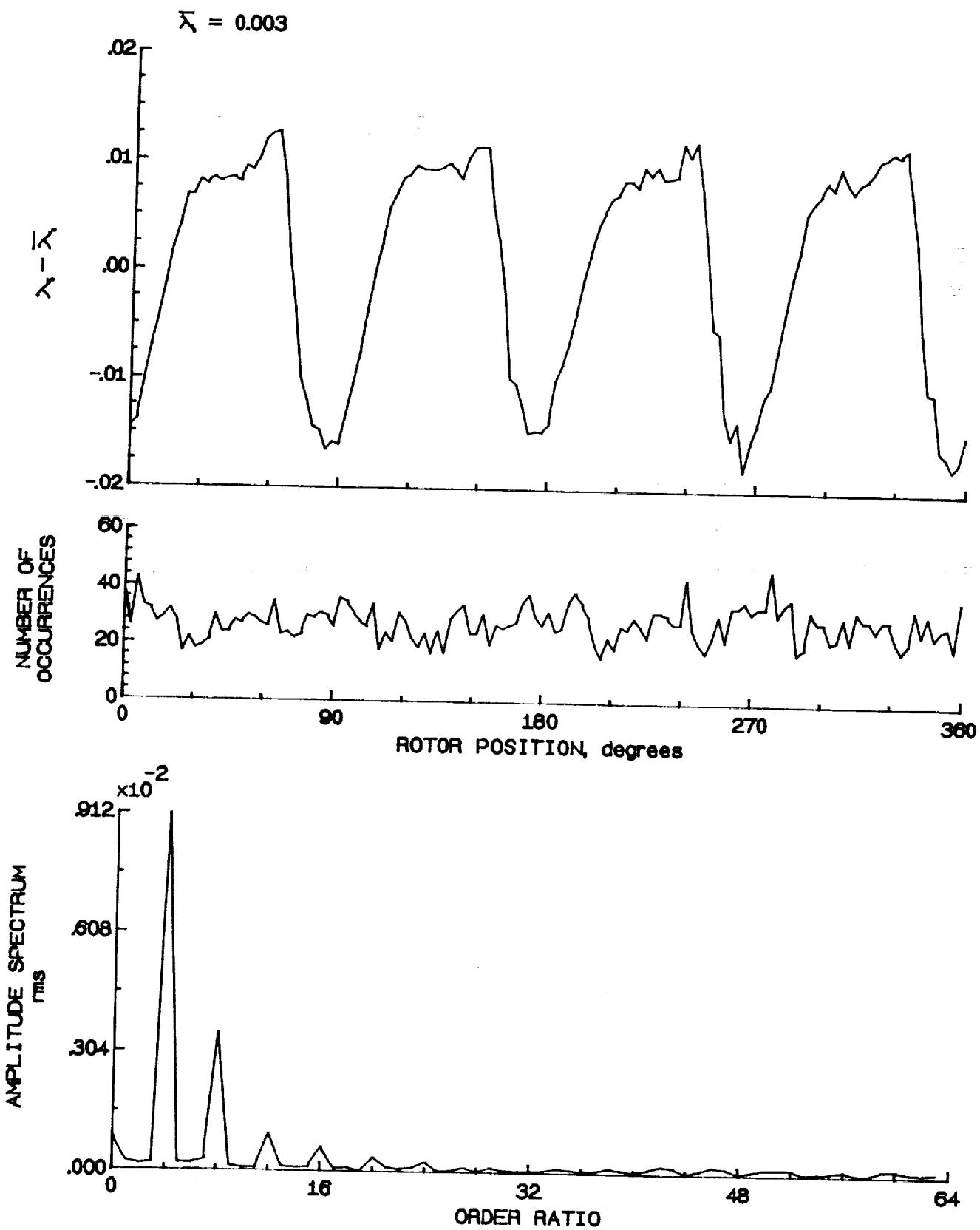


Figure 139.- Concluded.

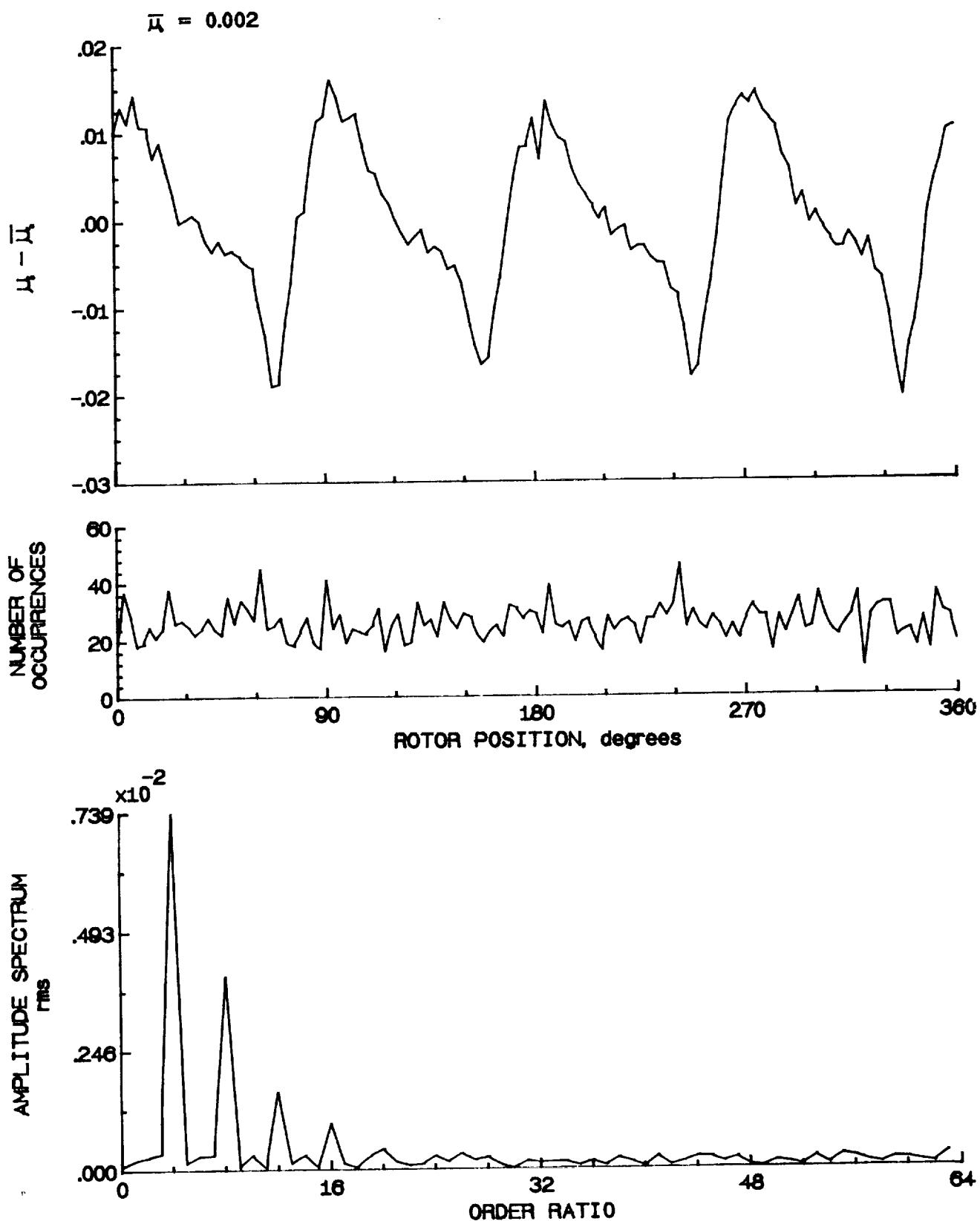


Figure 140.- Induced inflow velocity measured at 240 degrees and r/R of 0.86.

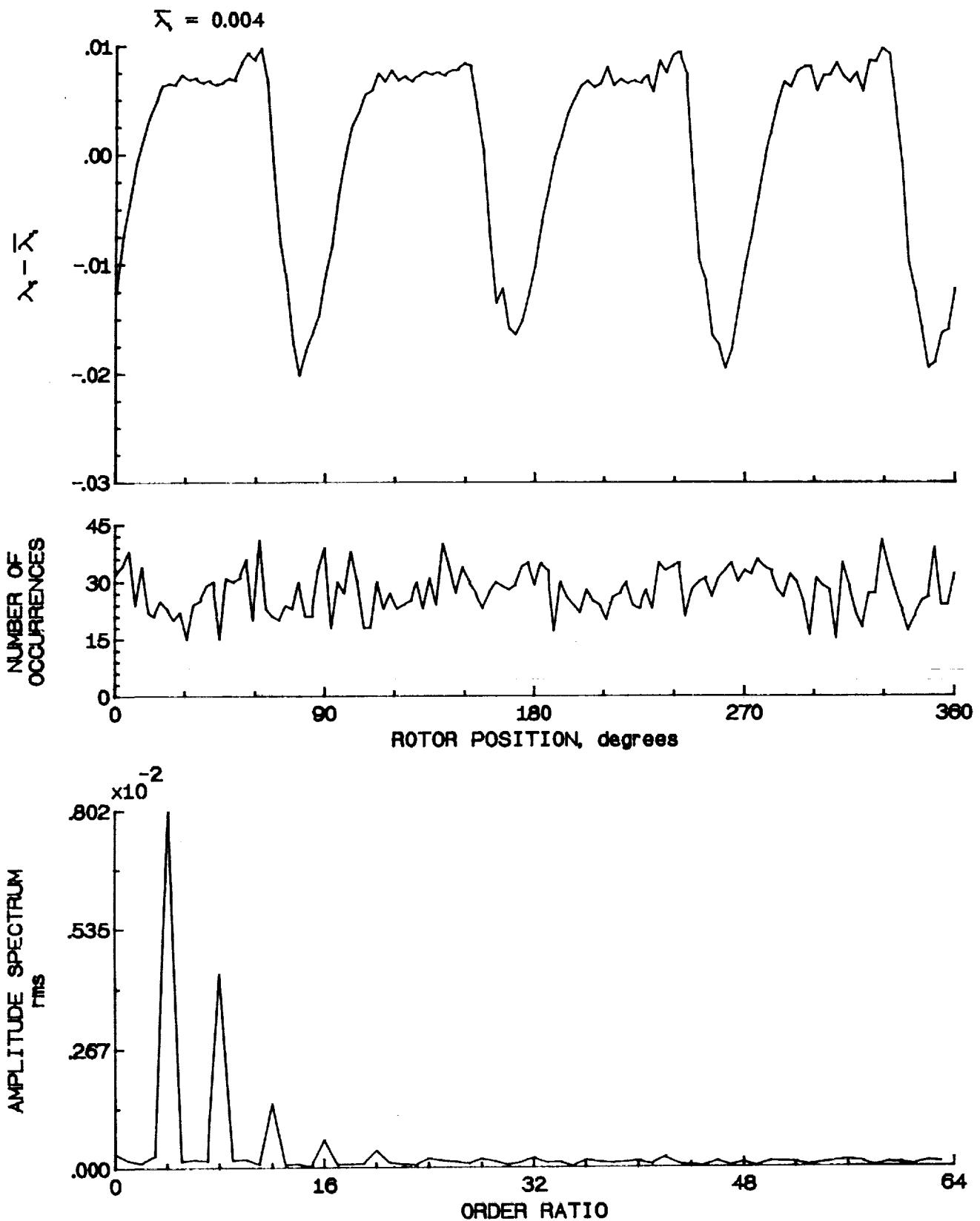


Figure 140.- Concluded.

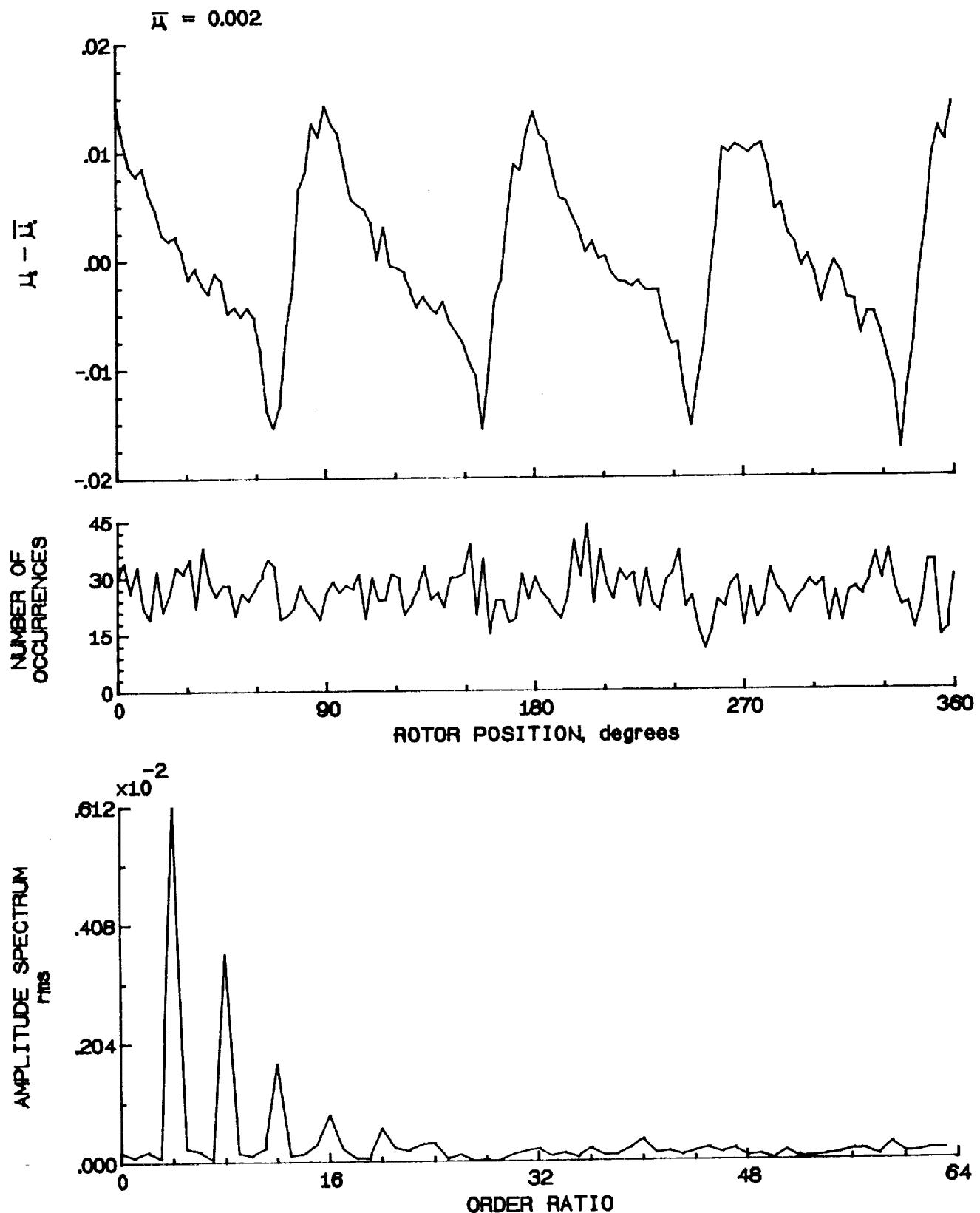


Figure 141.- Induced inflow velocity measured at 240 degrees and r/R of 0.90.

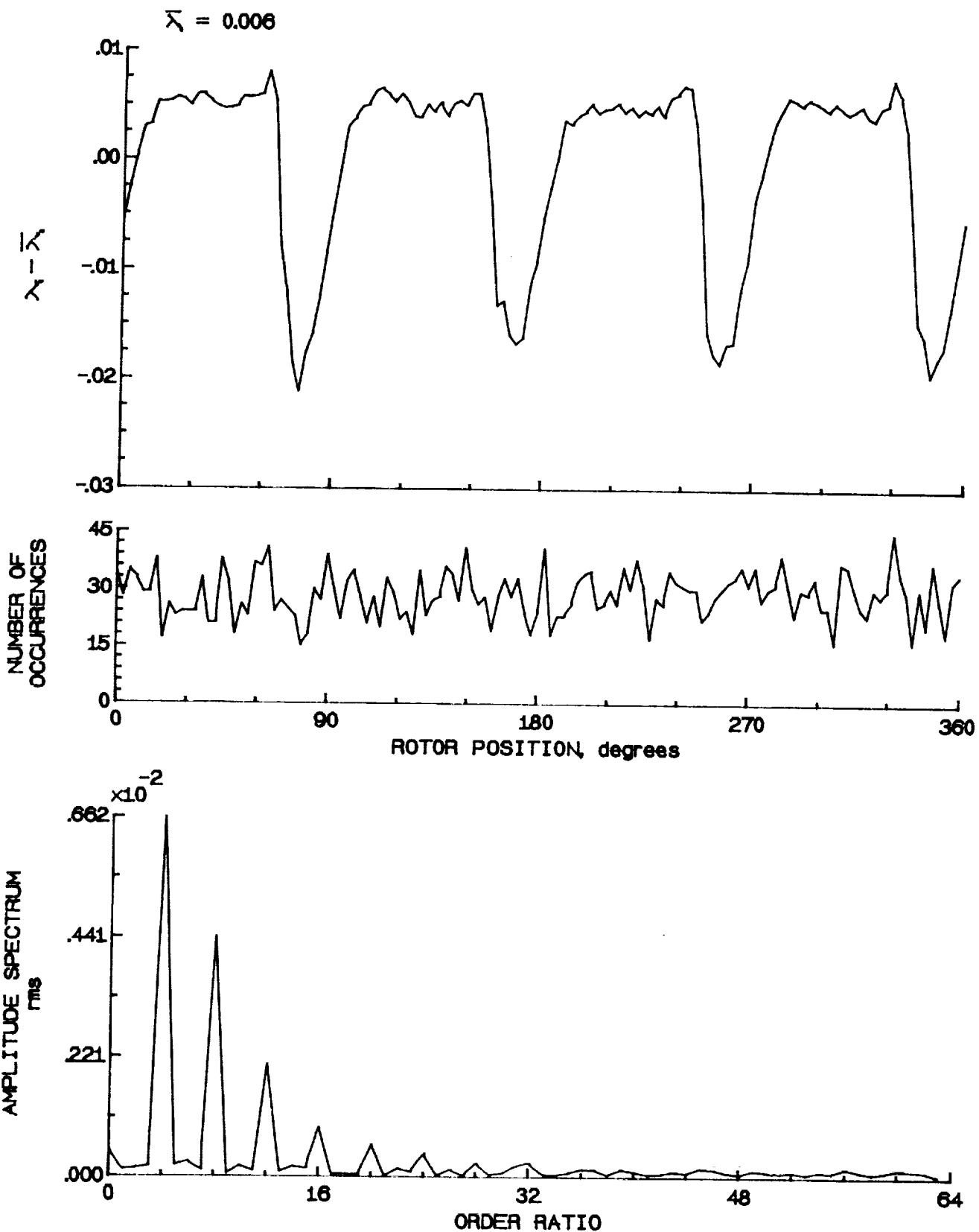


Figure 141- Concluded.

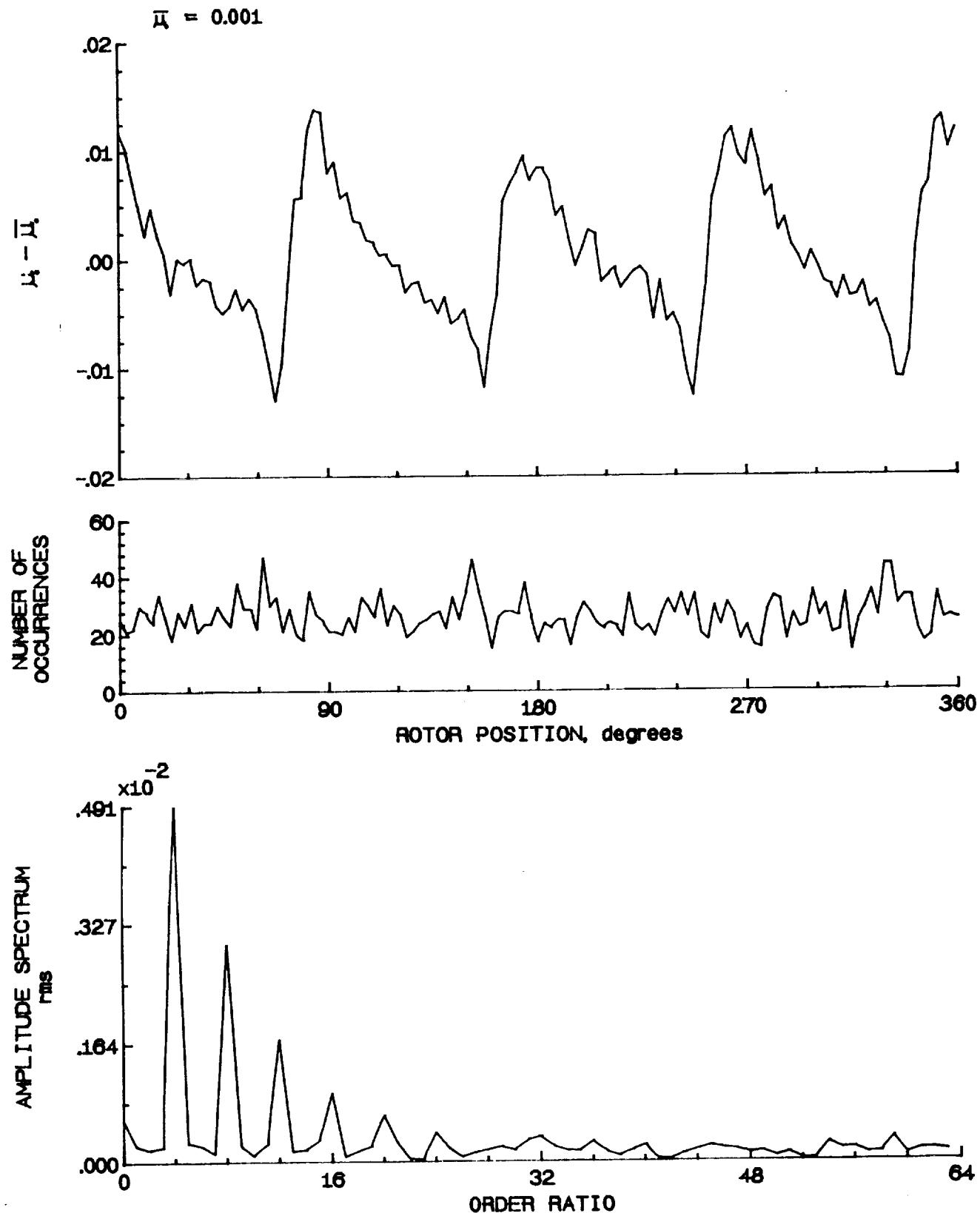


Figure 142- Induced inflow velocity measured at 240 degrees and r/R of 0.94.

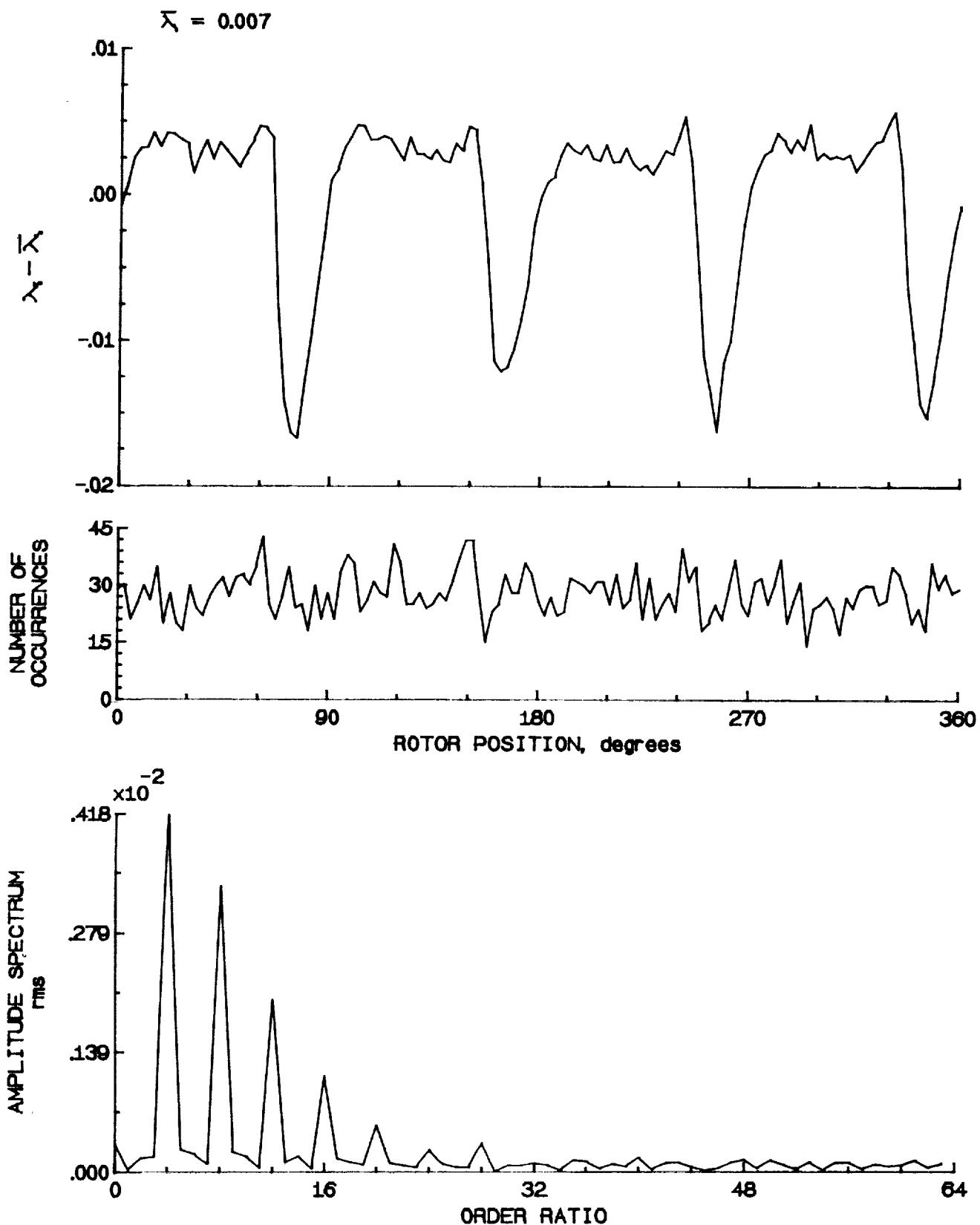


Figure 142.- Concluded

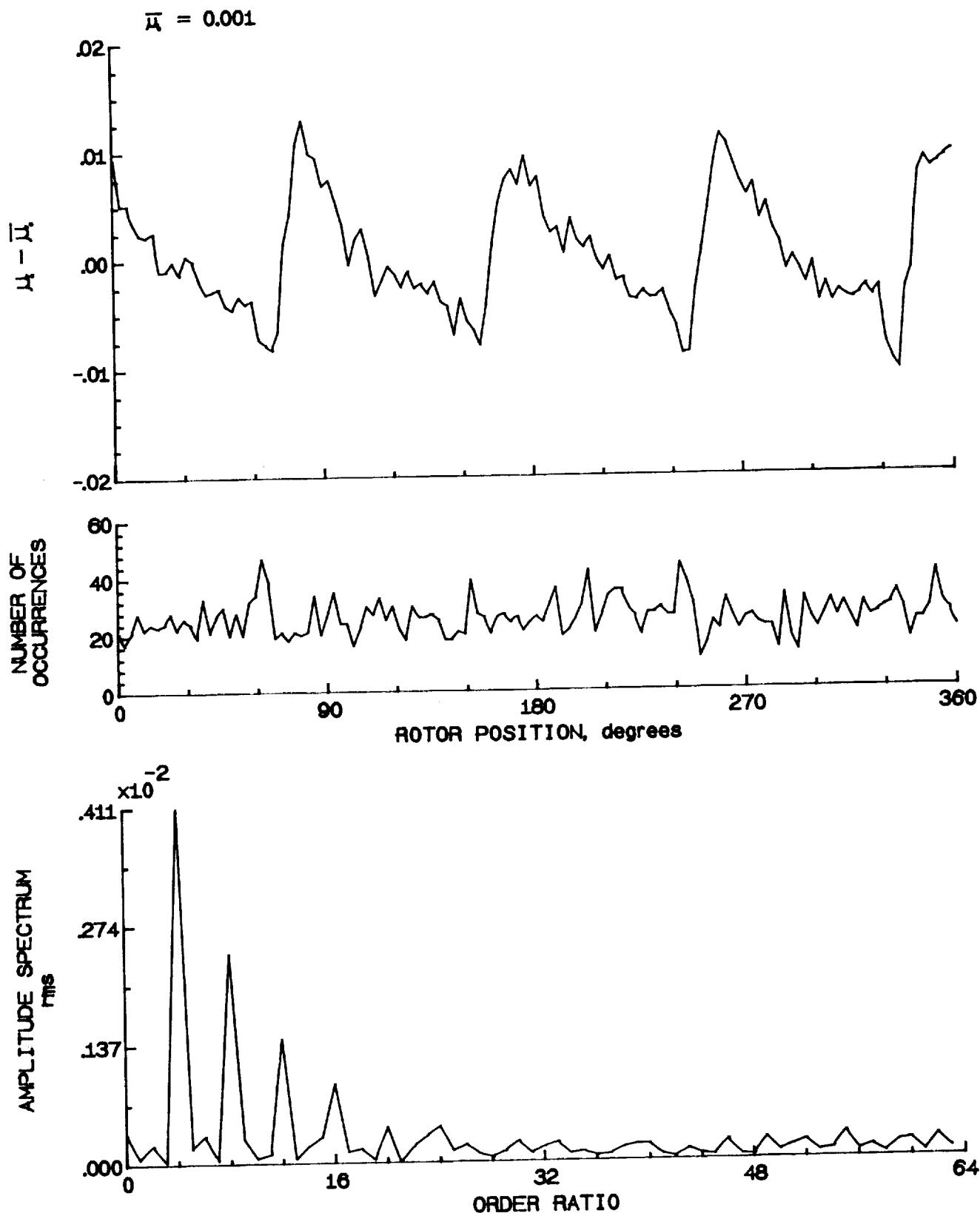


Figure 143.- Induced inflow velocity measured at 240 degrees and r/R of 0.96.

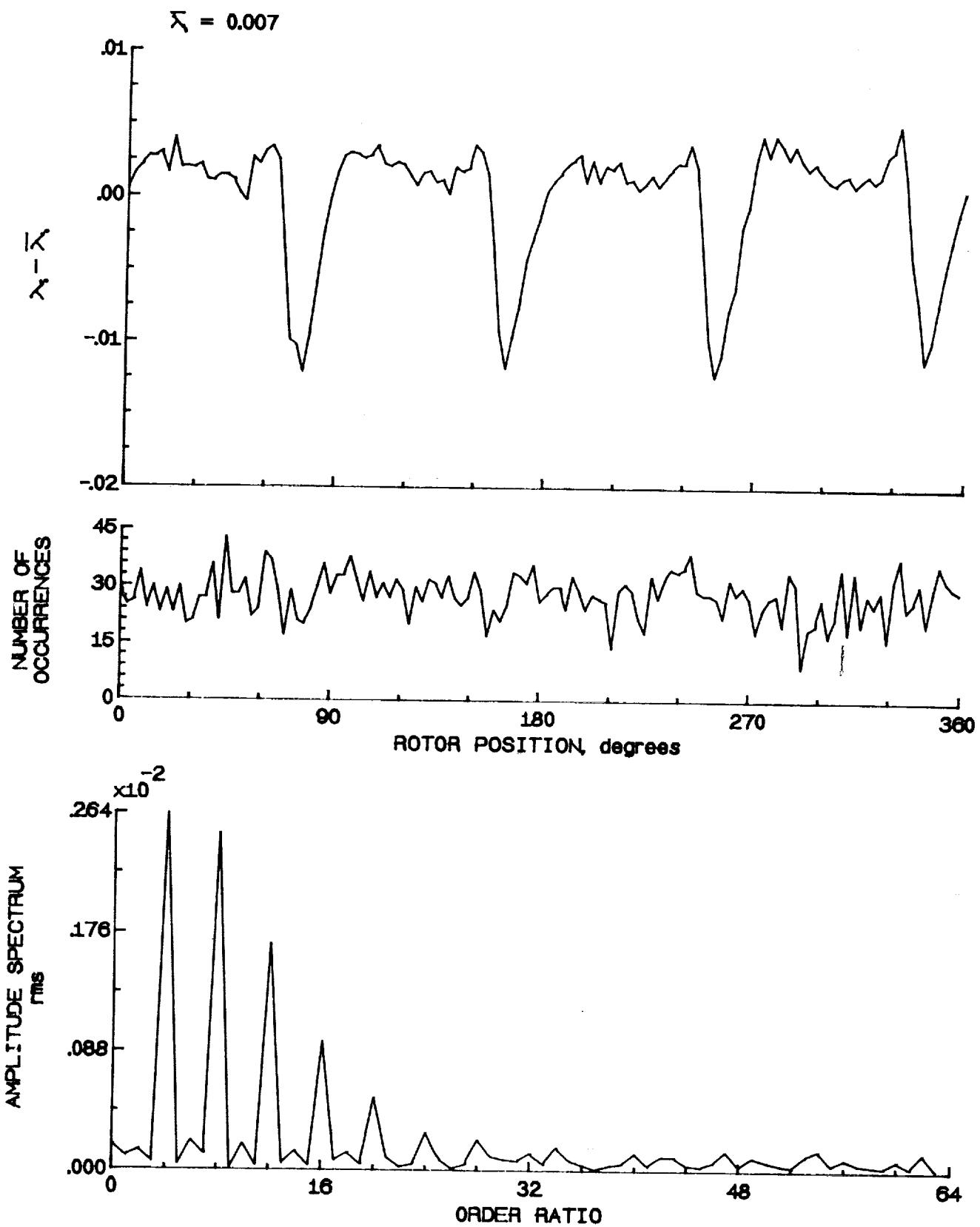


Figure 143.- Concluded.

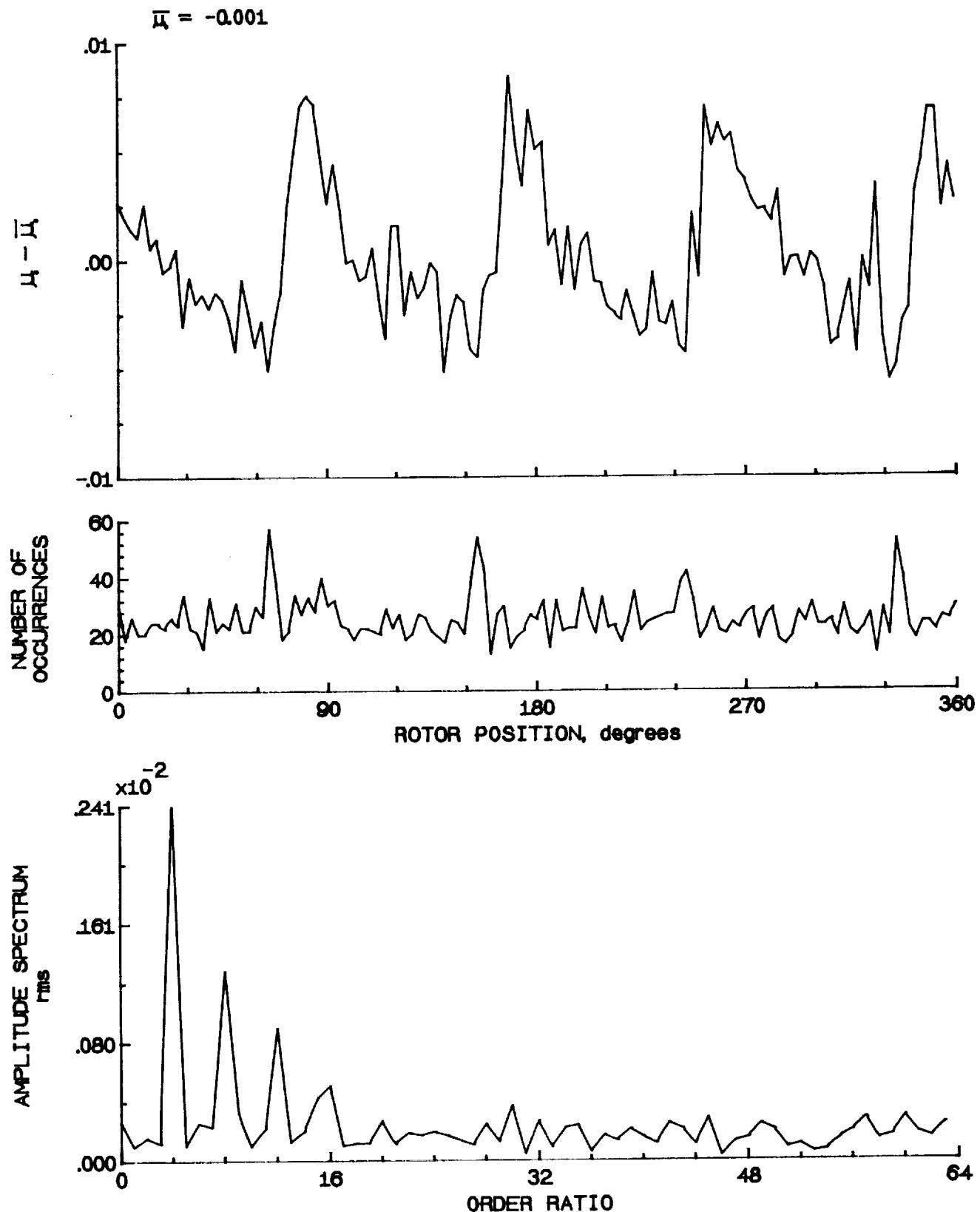


Figure 144.- Induced inflow velocity measured at 240 degrees and r/R of 1.00.

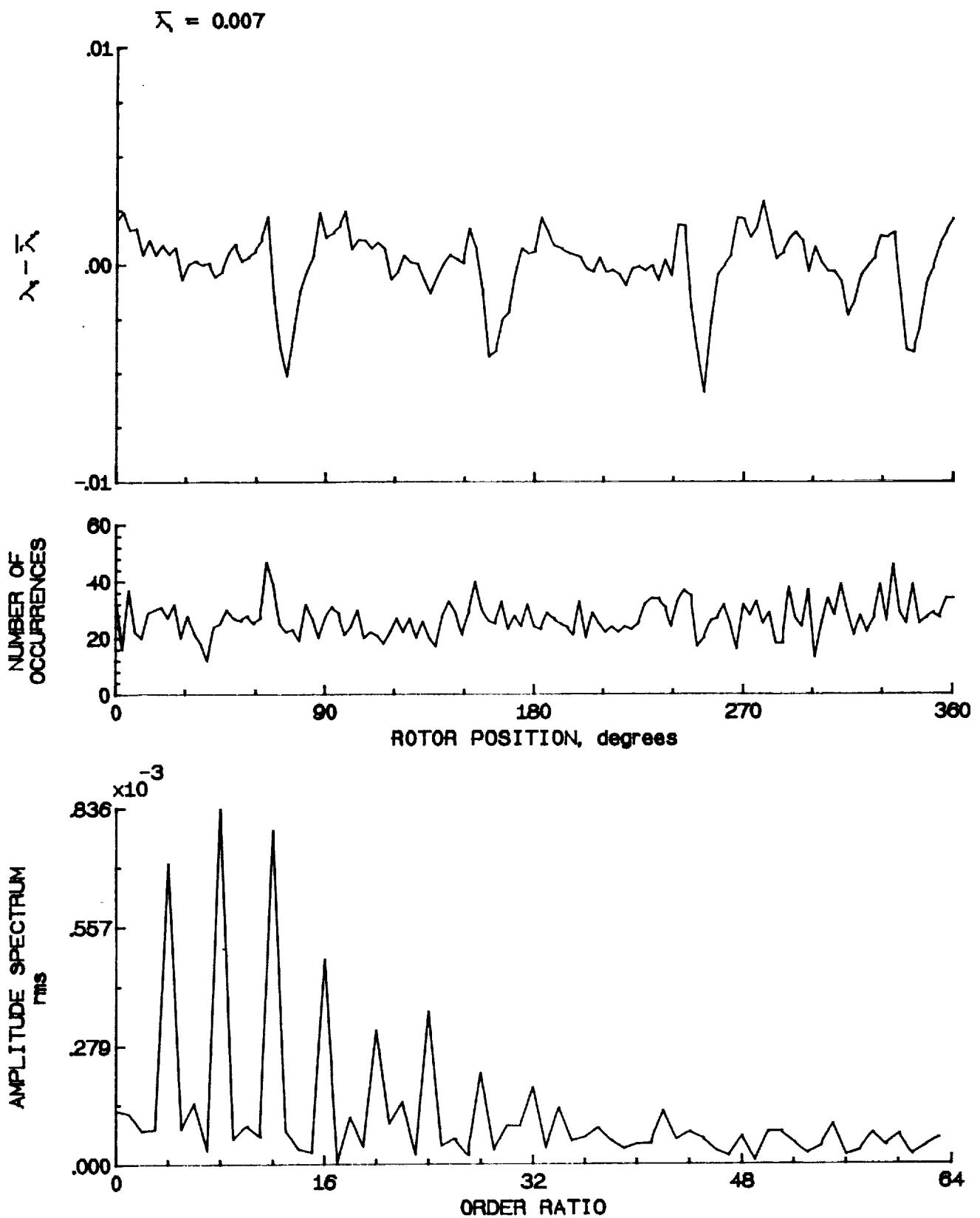


Figure 144.- Concluded.

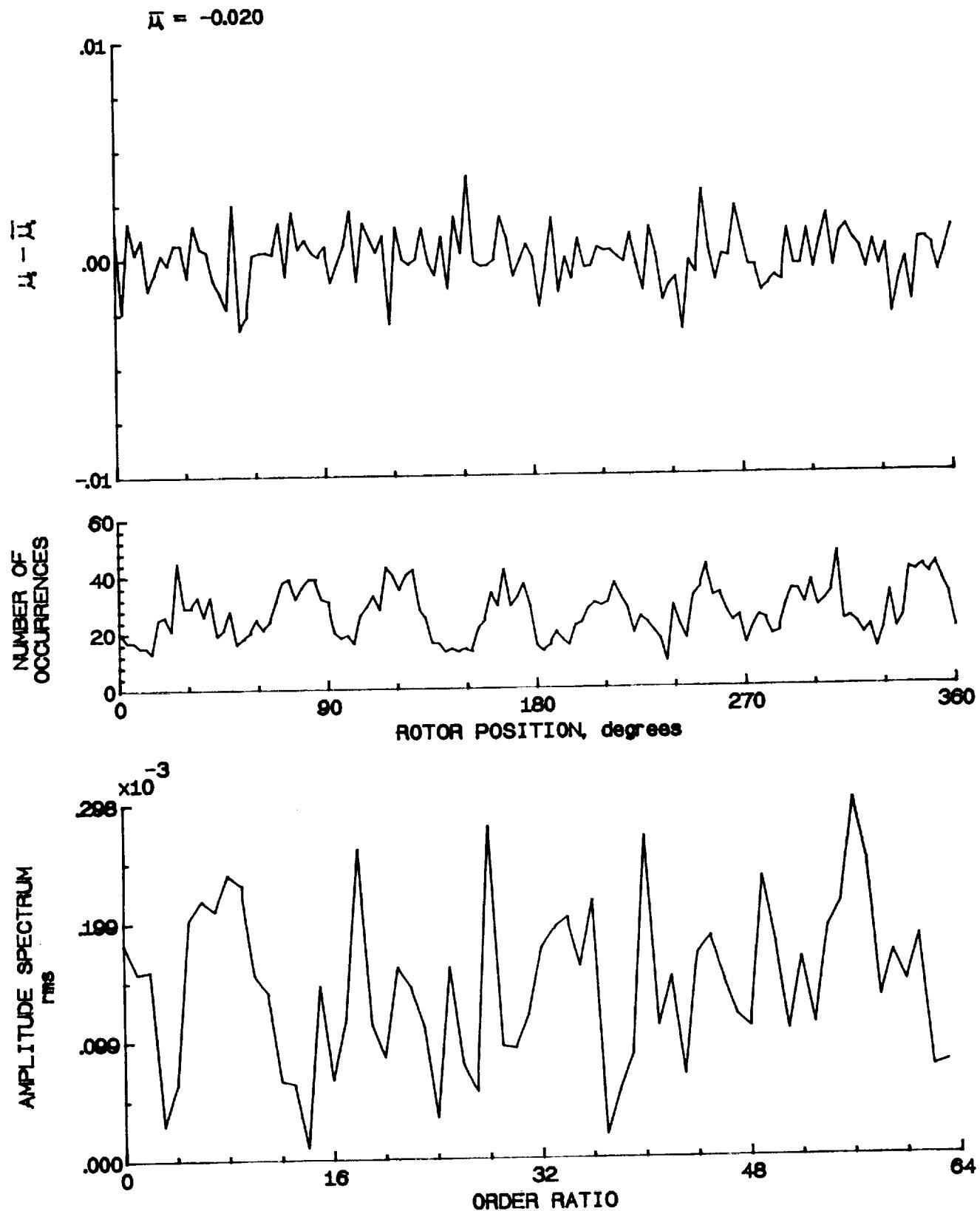


Figure 145.- Induced inflow velocity measured at 240 degrees and r/R of 110.

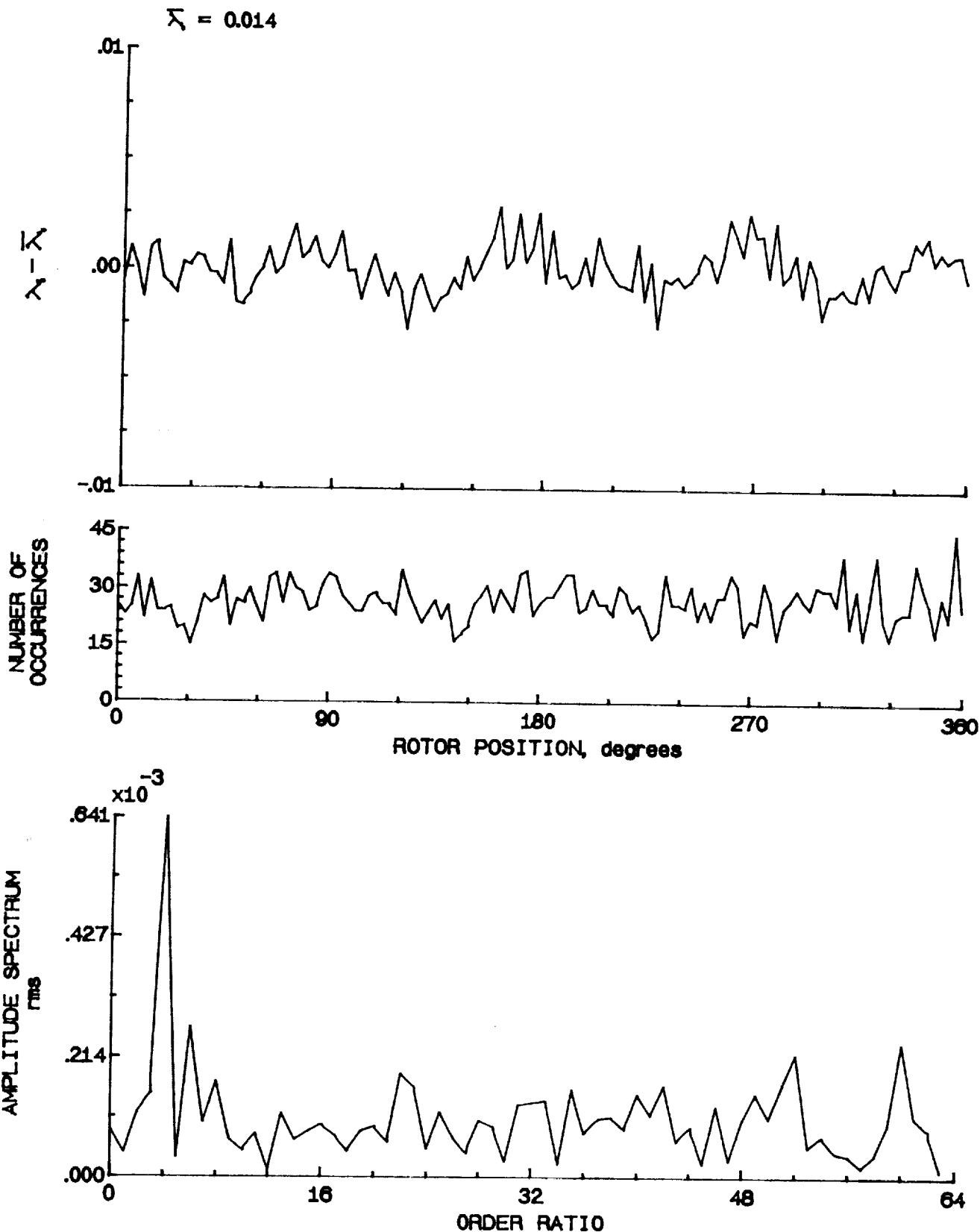


Figure 145.- Concluded.

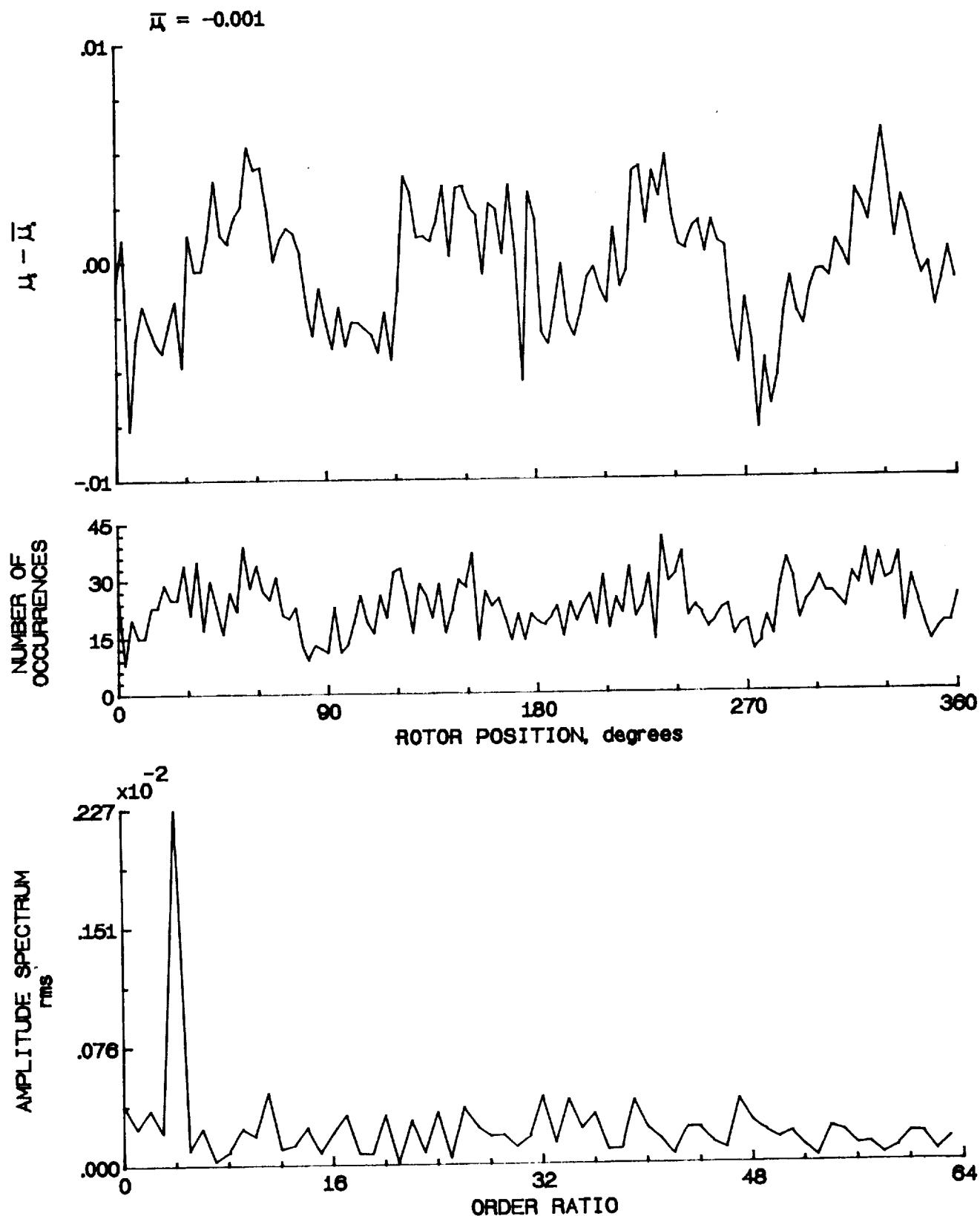


Figure 146.- Induced inflow velocity measured at 270 degrees and r/R of 0.20.

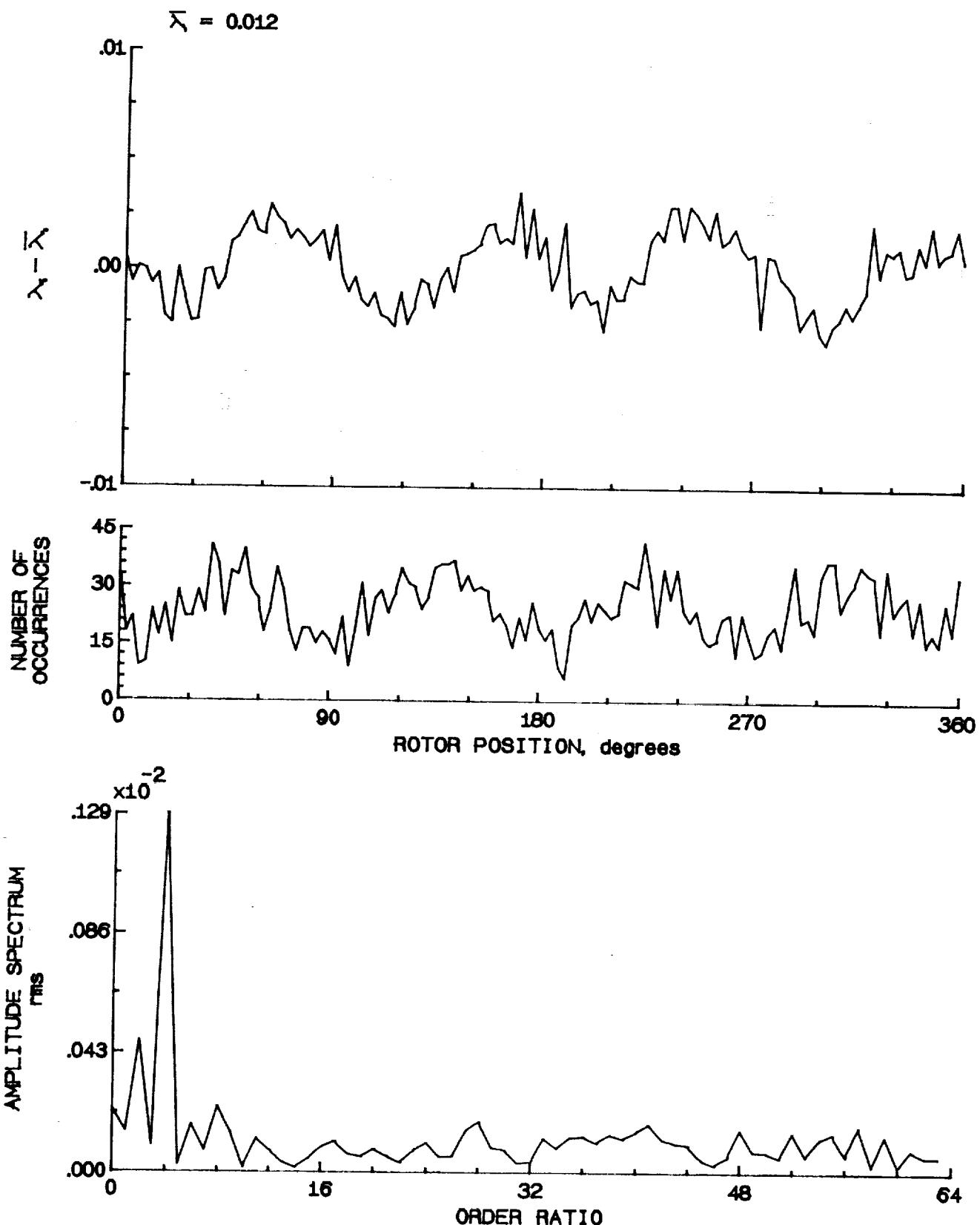


Figure 146.- Concluded.

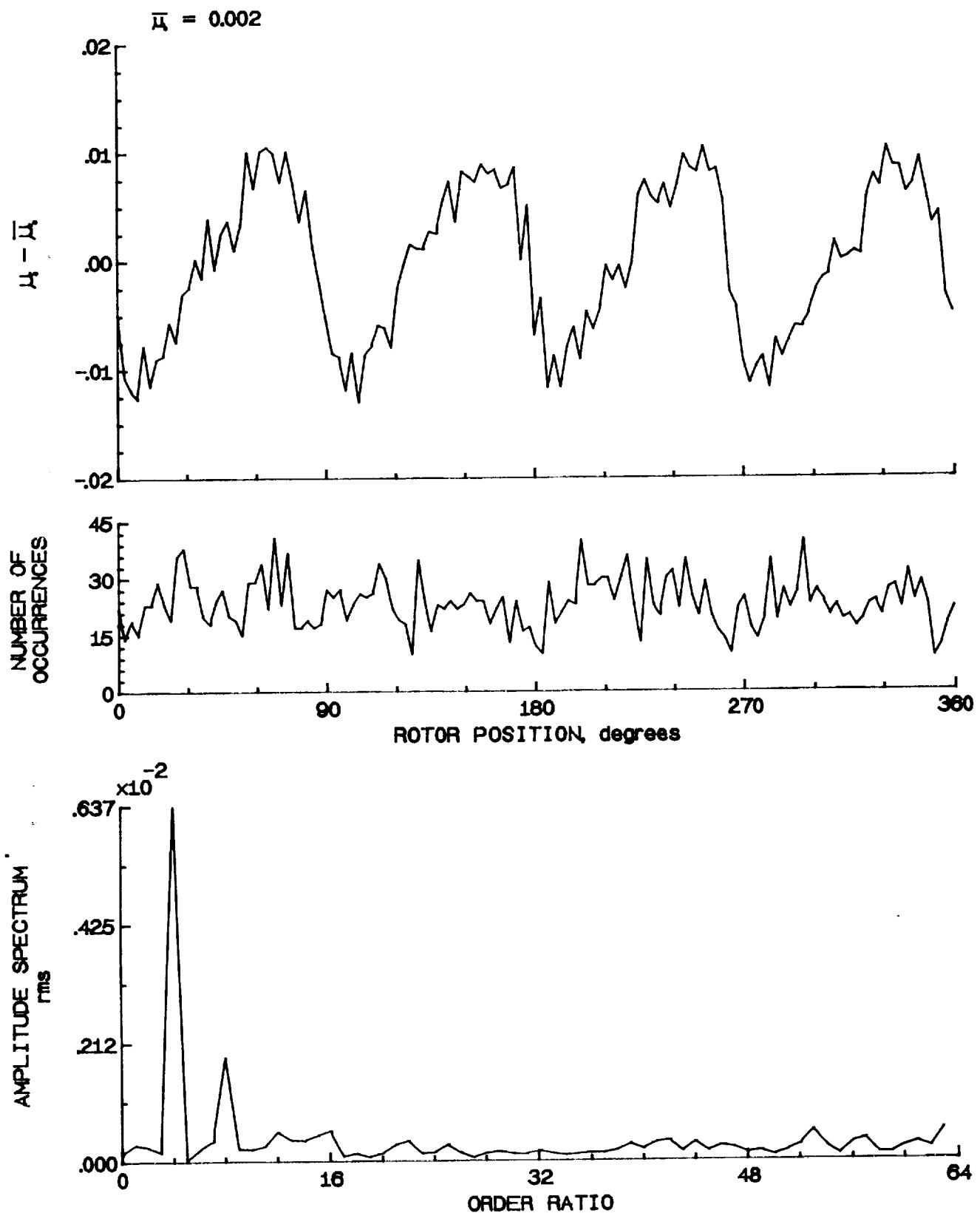


Figure 147.- Induced inflow velocity measured at 270 degrees and r/R of 0.32

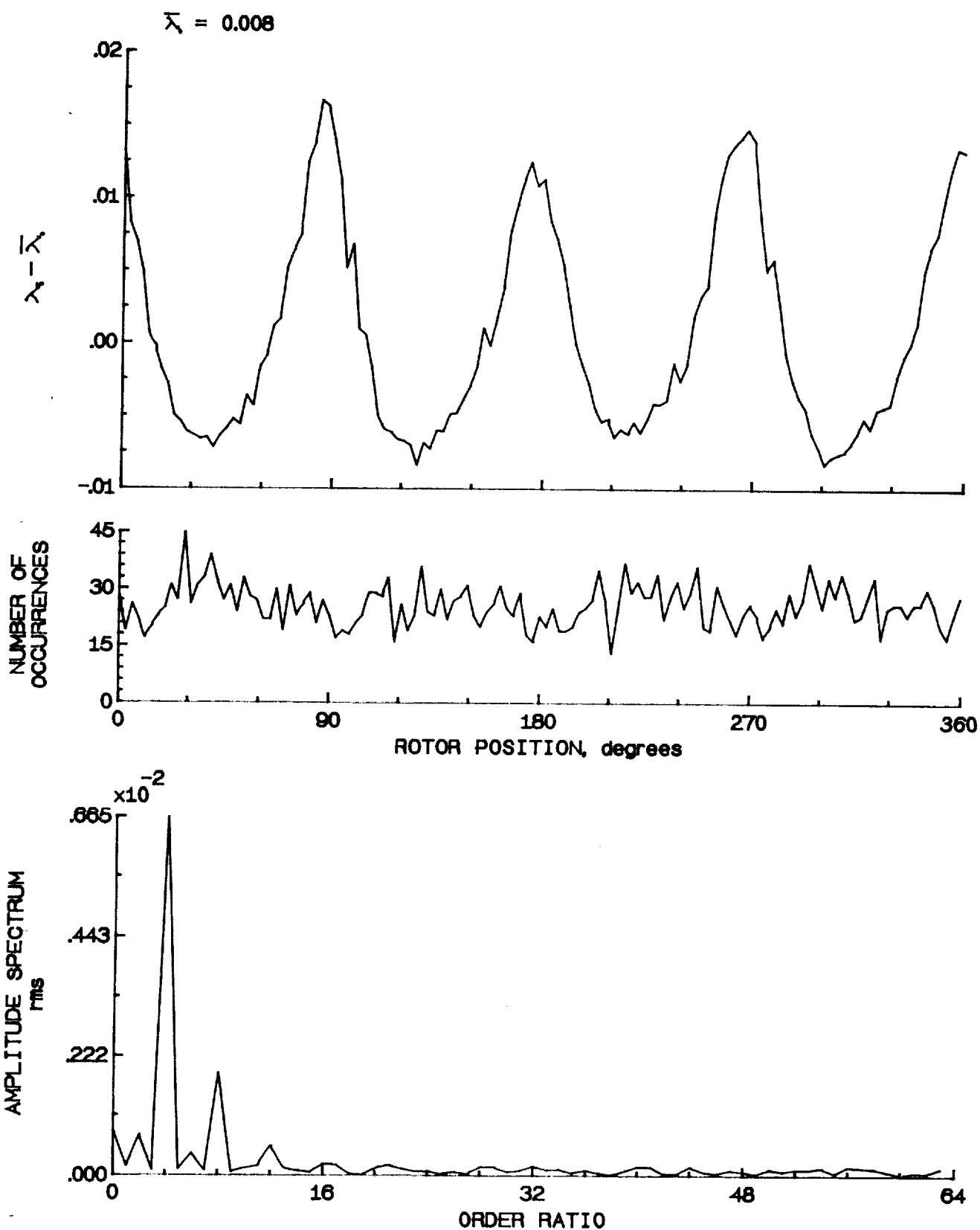


Figure 147.- Concluded.

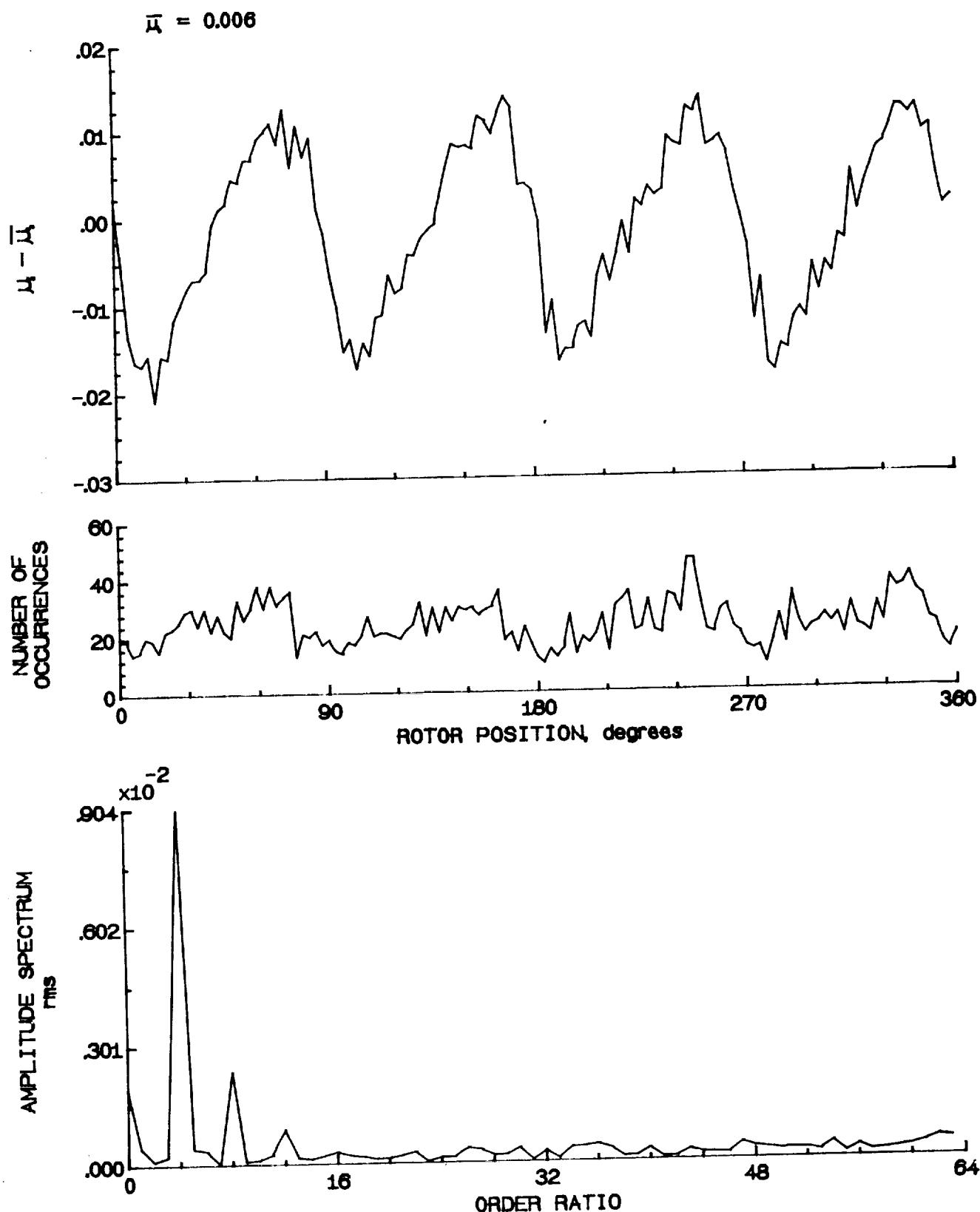


Figure 148.- Induced inflow velocity measured at 270 degrees and r/R of 0.50.

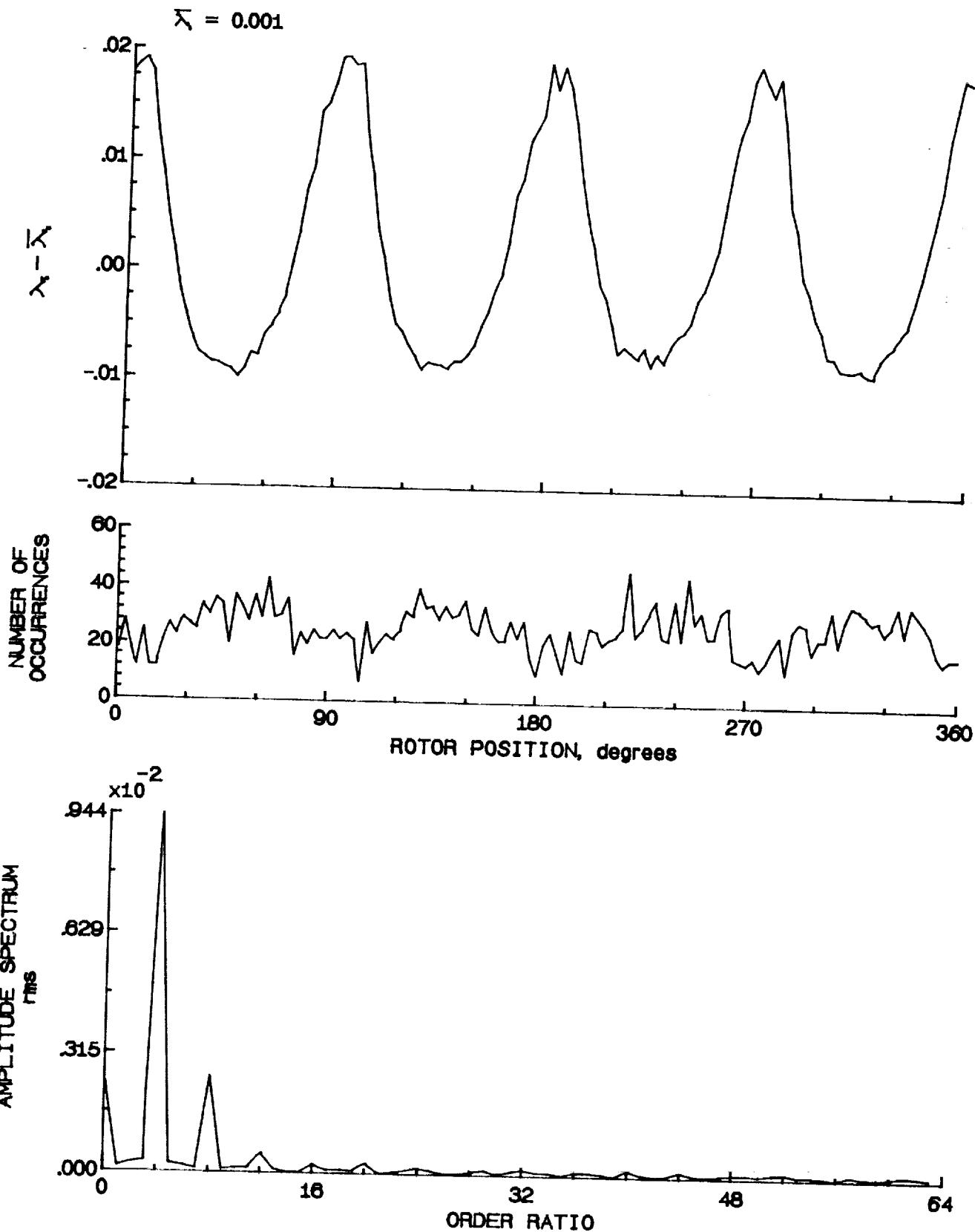


Figure 148.- Concluded.

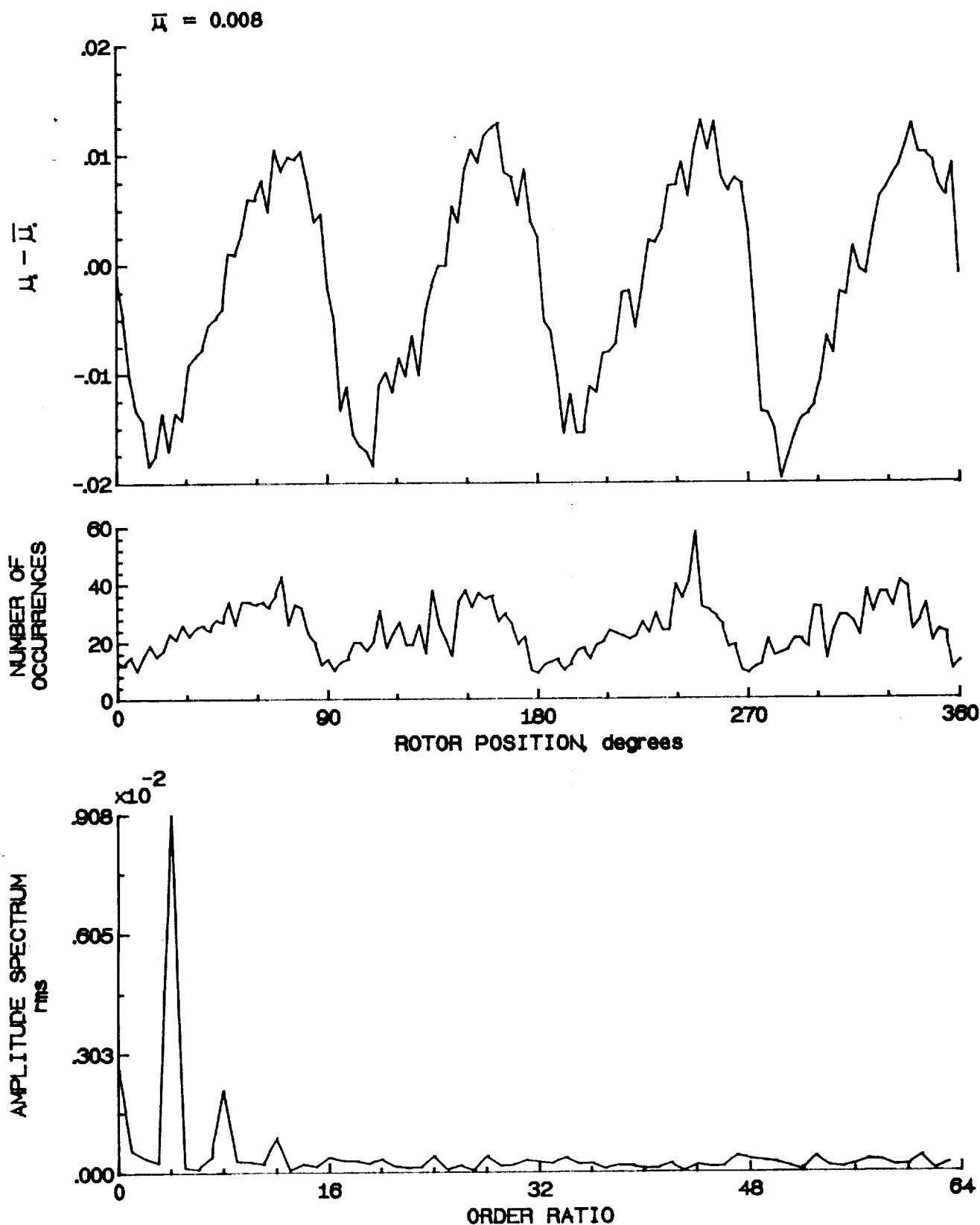


Figure 149.- Induced inflow velocity measured at 270 degrees and r/R of 0.58.

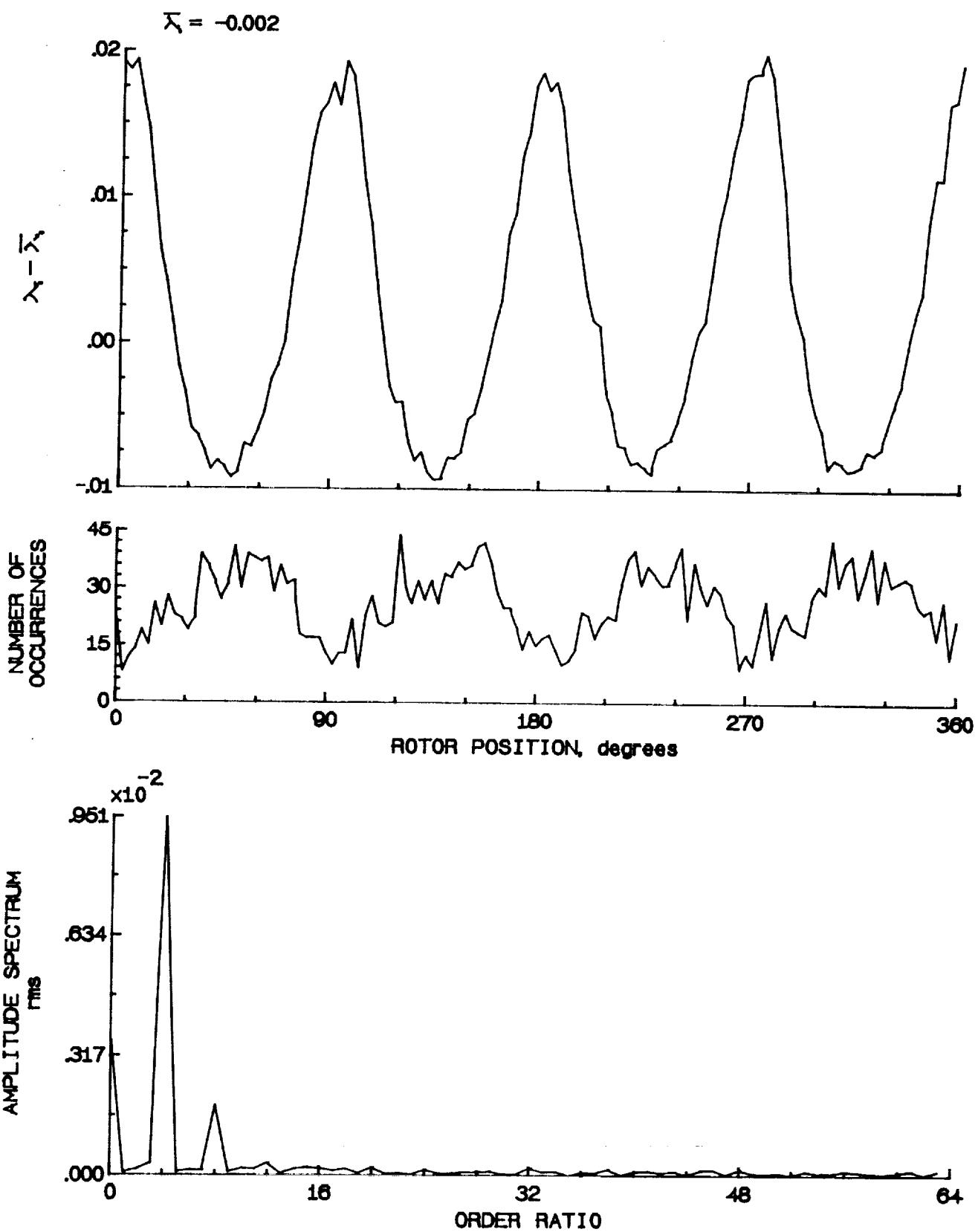


Figure 149.- Concluded.

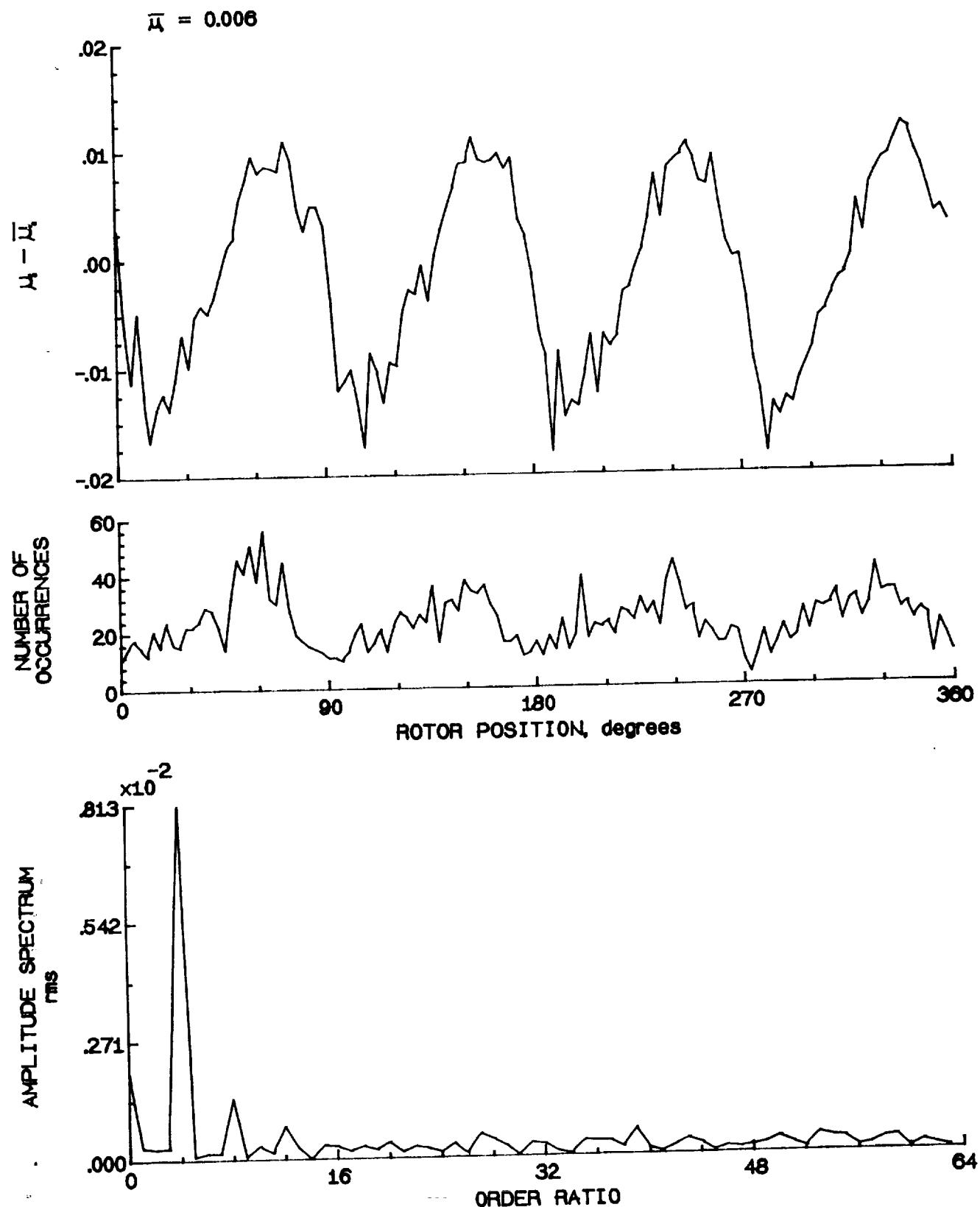


Figure 150.- Induced inflow velocity measured at 270 degrees and r/R of 0.89.

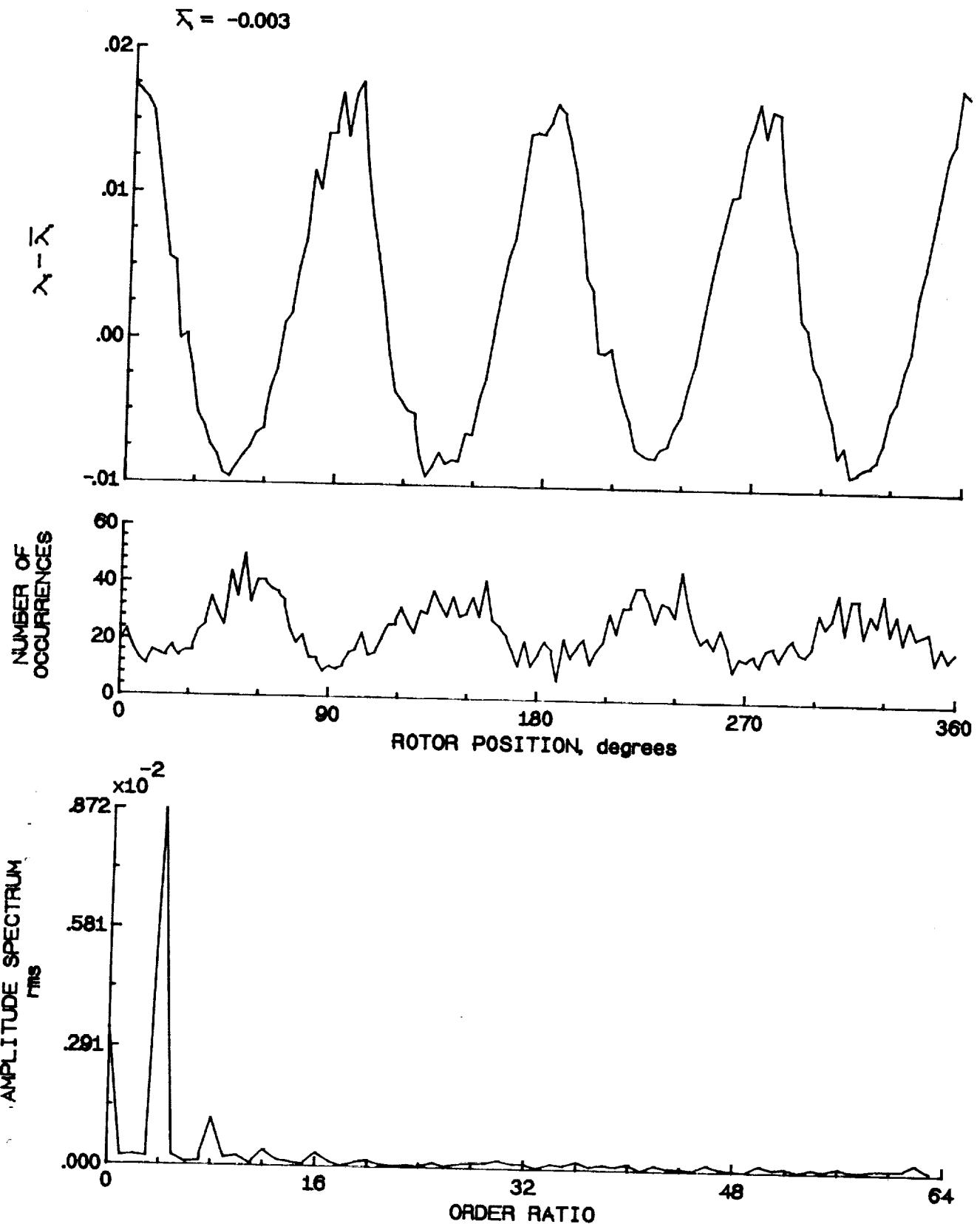


Figure 150.- Concluded.

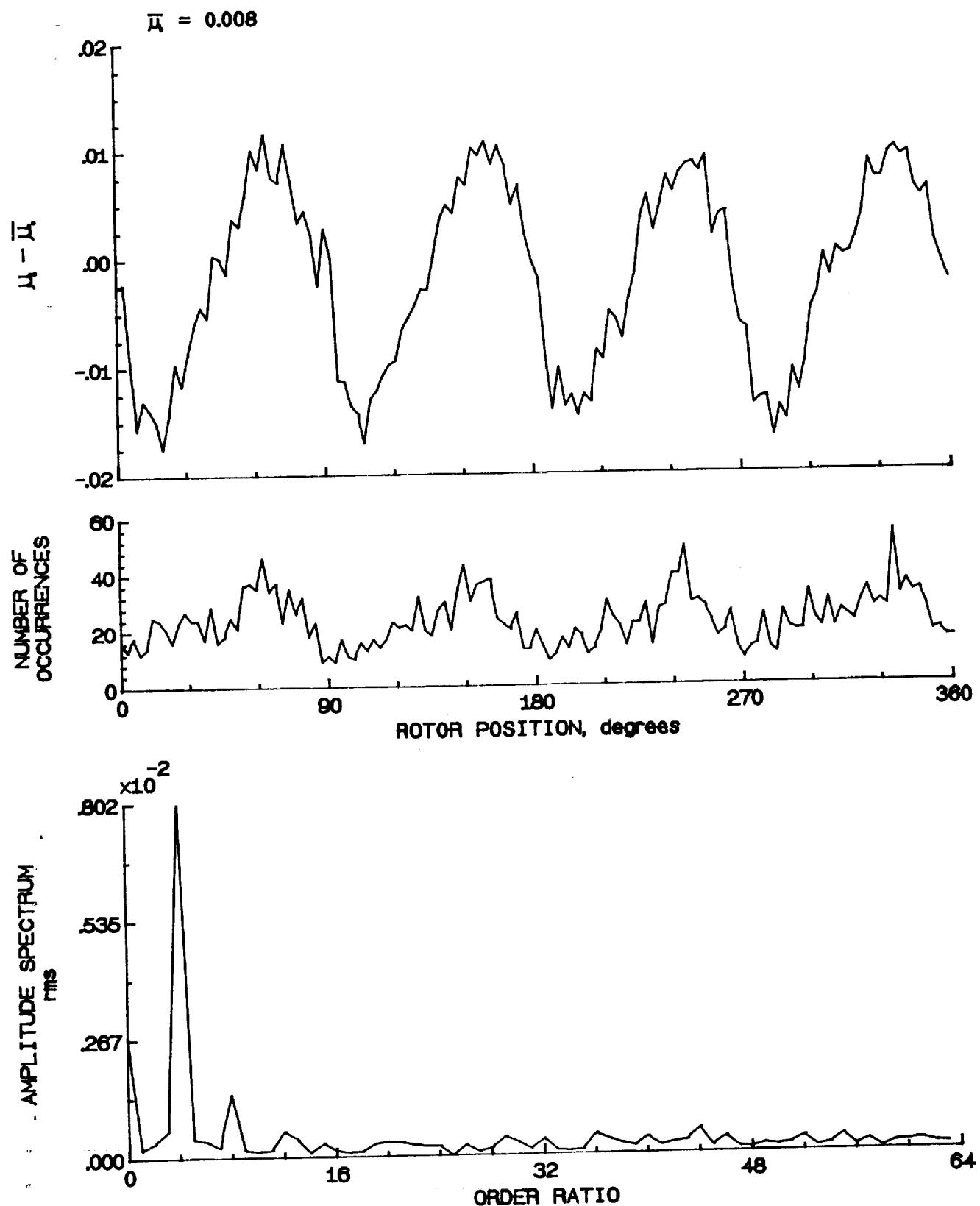


Figure 151.- Induced inflow velocity measured at 270 degrees and r/R of 0.73.

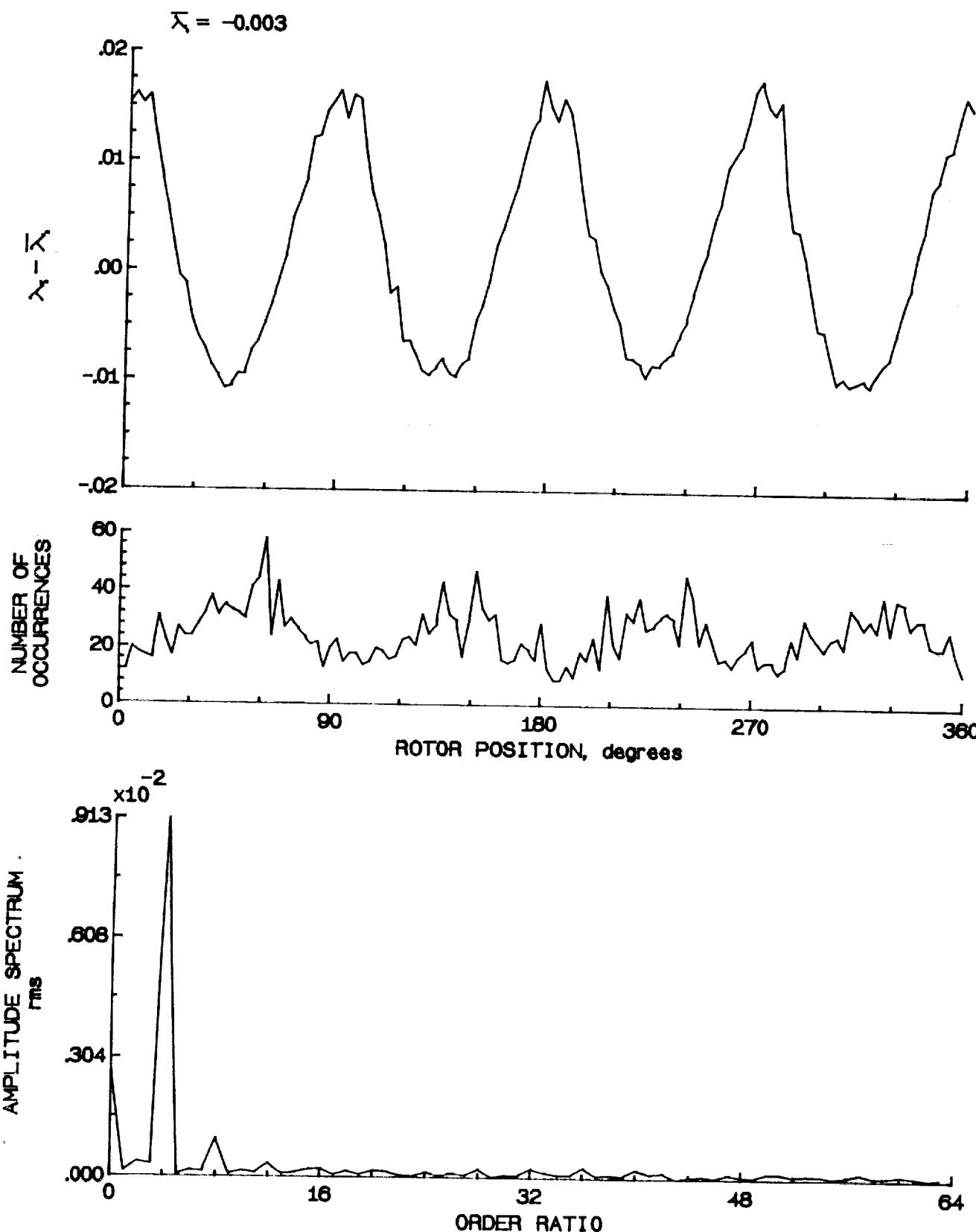


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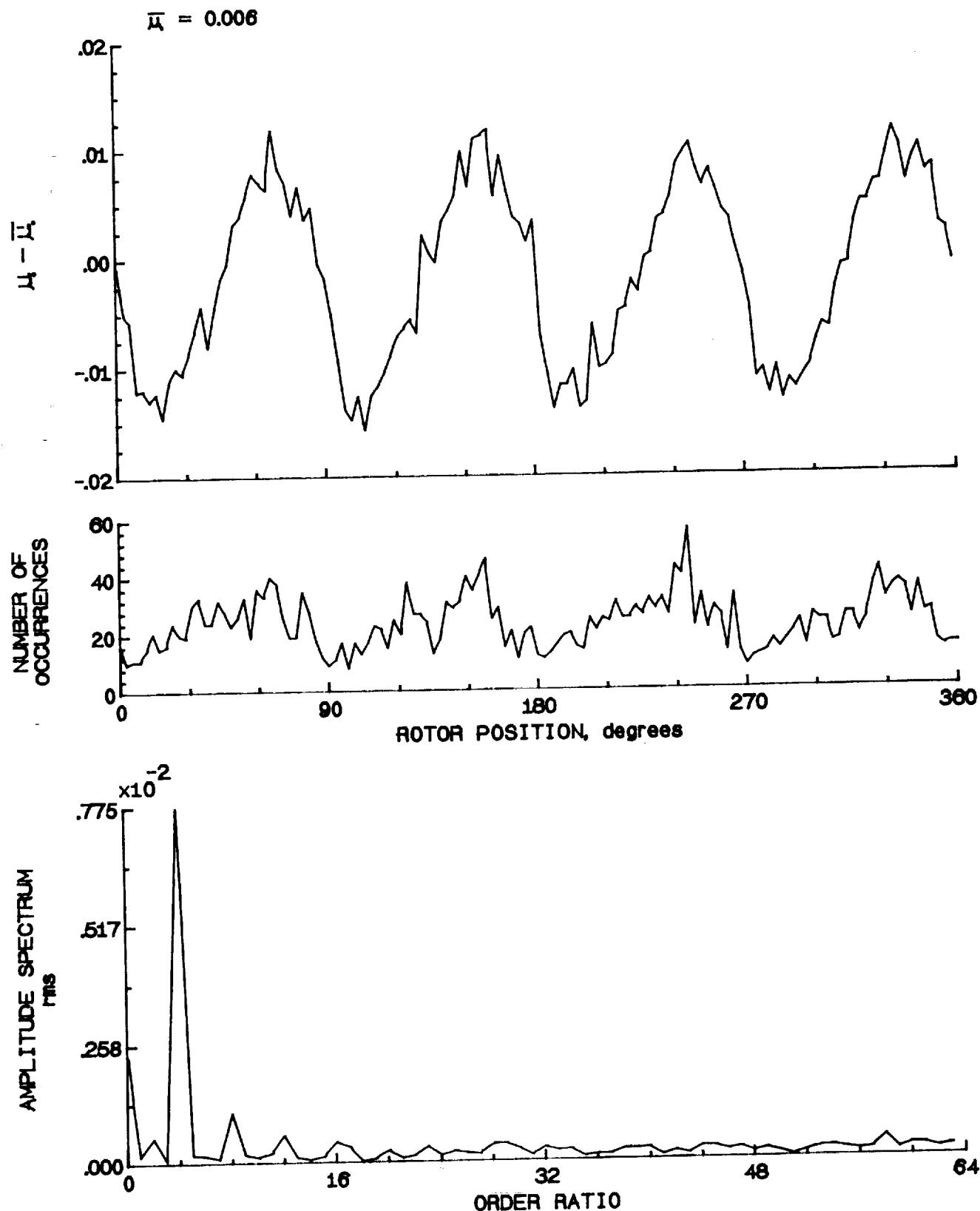


Figure 152.- Induced inflow velocity measured at 270 degrees and r/R of 0.75.

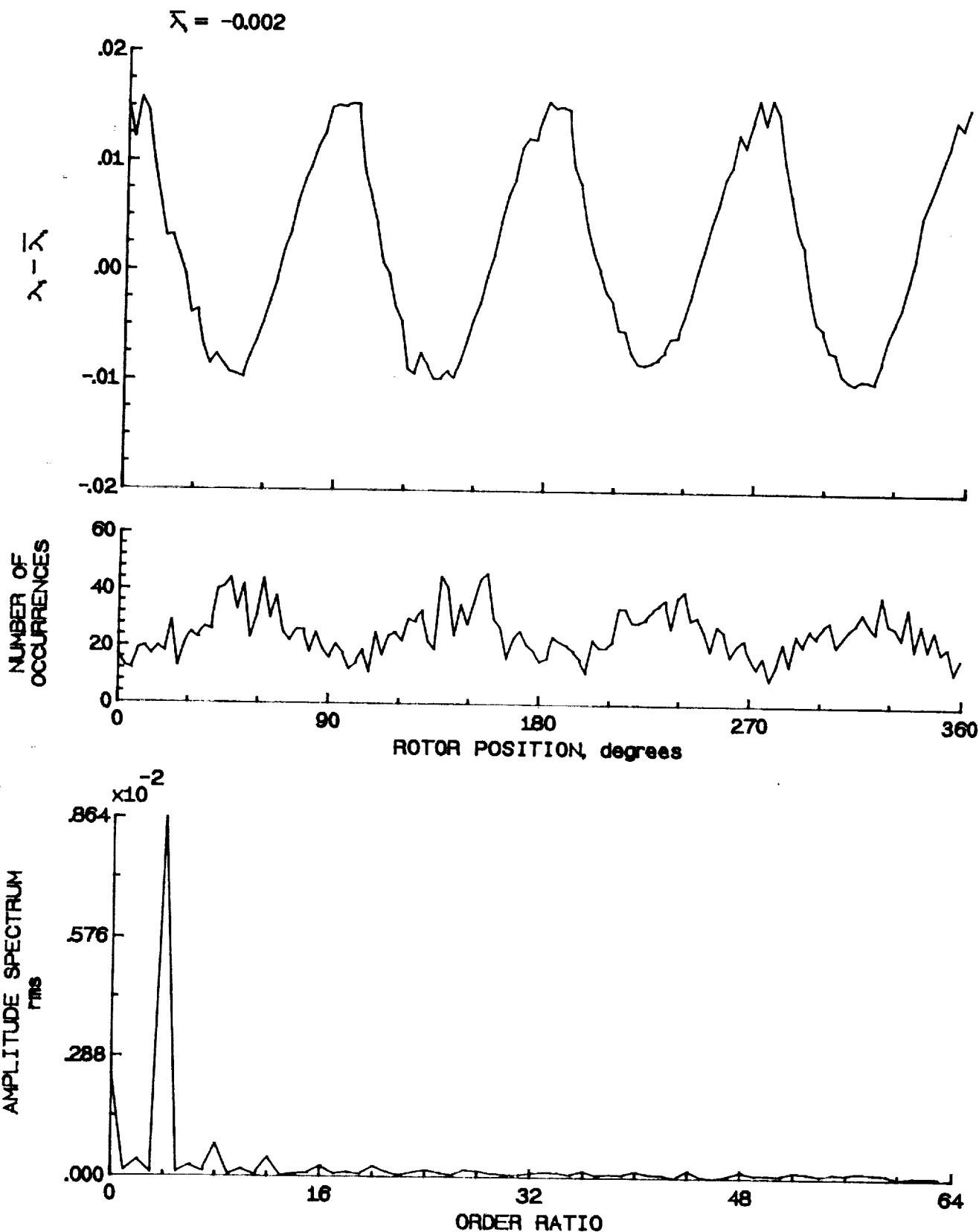


Figure 152.- Concluded.

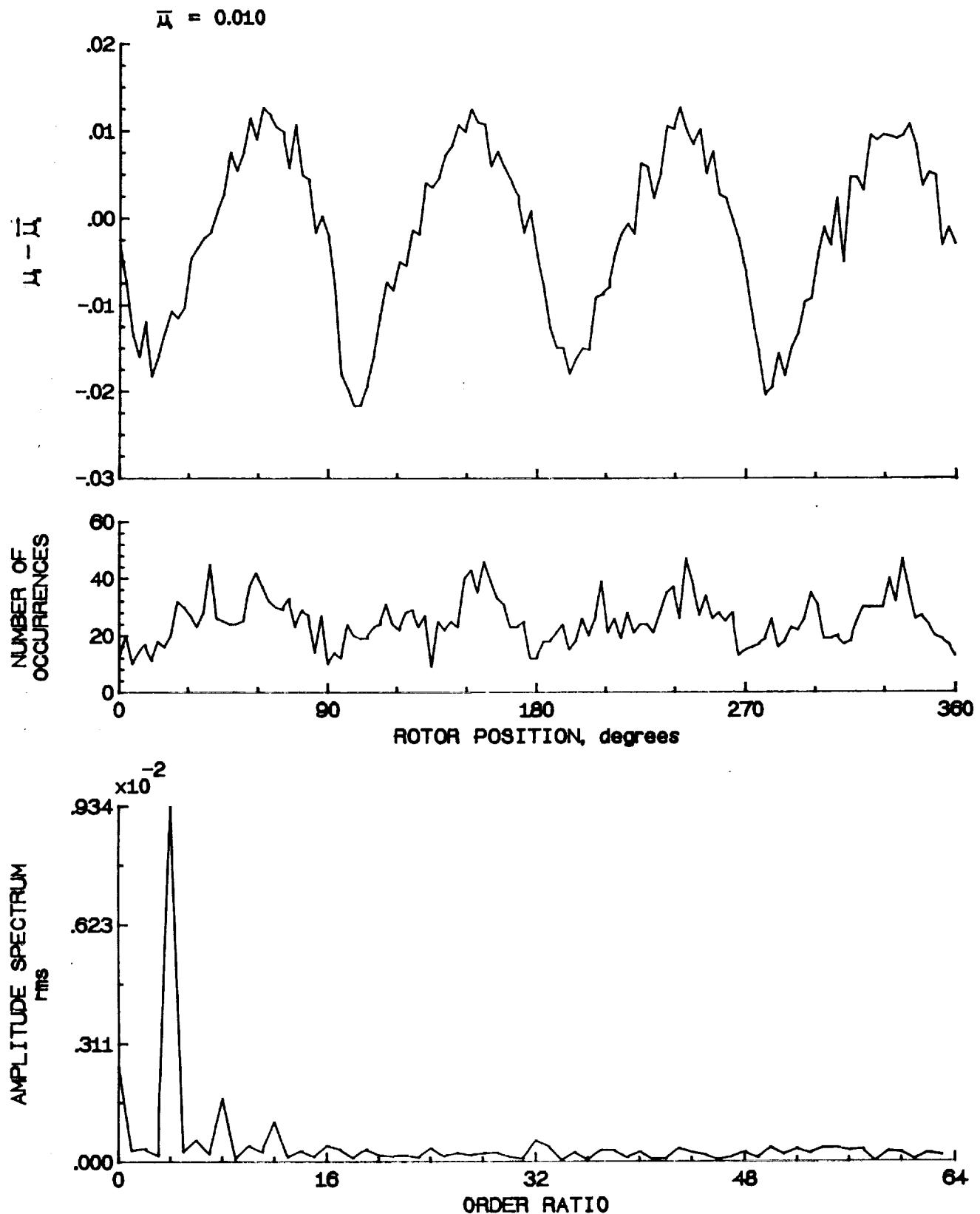


Figure 153.- Induced inflow velocity measured at 270 degrees and r/R of 0.81.

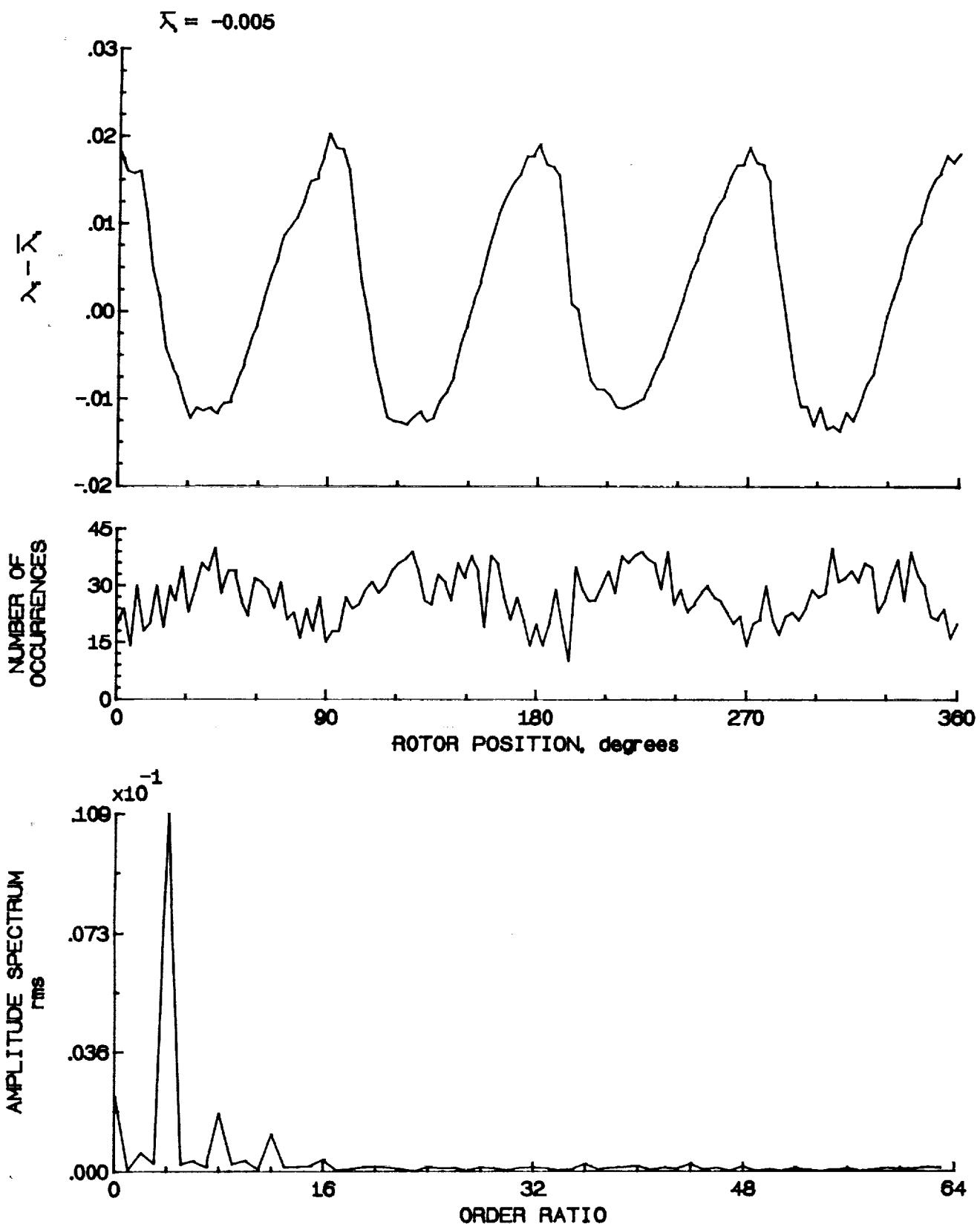


Figure 153.- Concluded

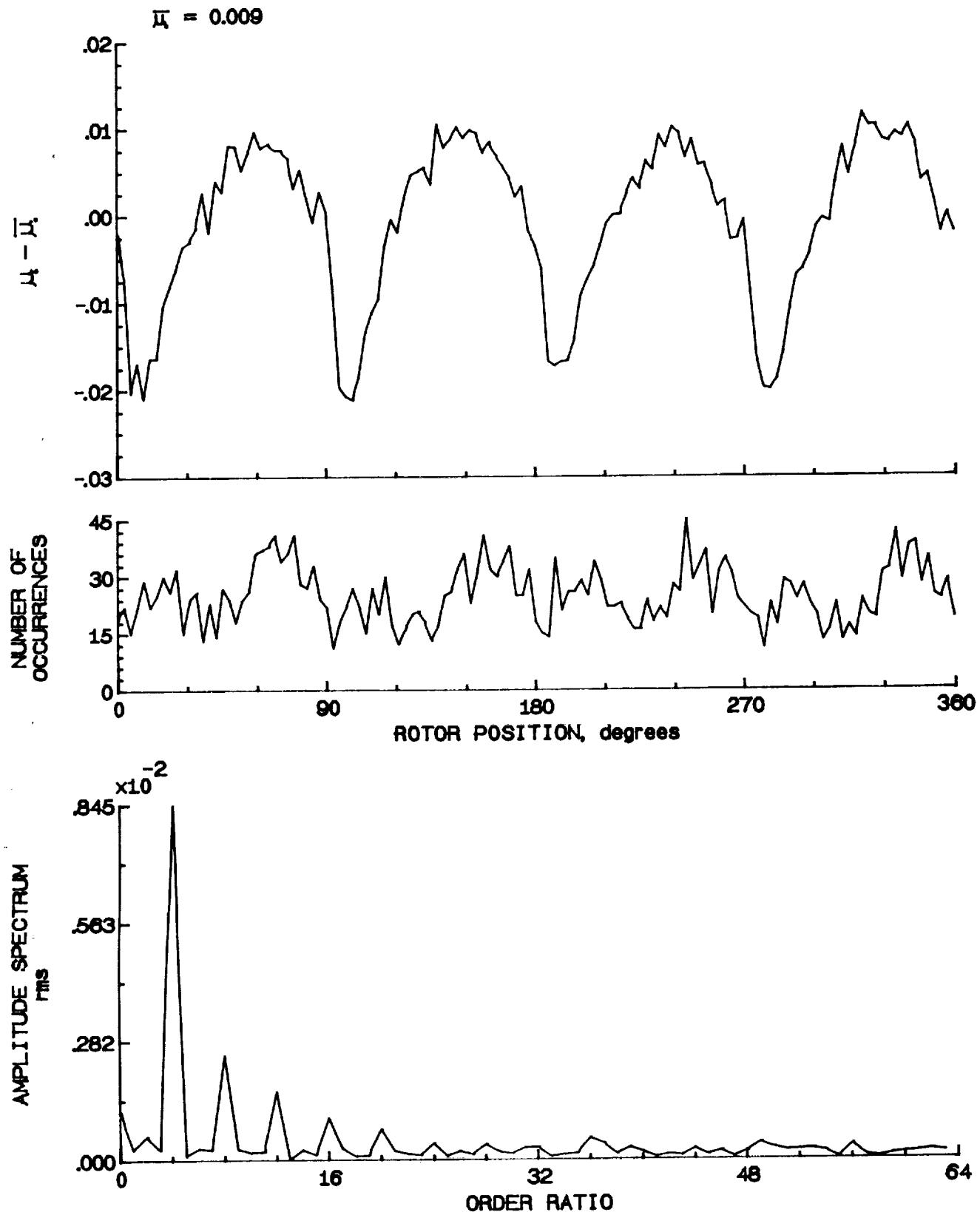


Figure 154.- Induced inflow velocity measured at 270 degrees and r/R of 0.86.

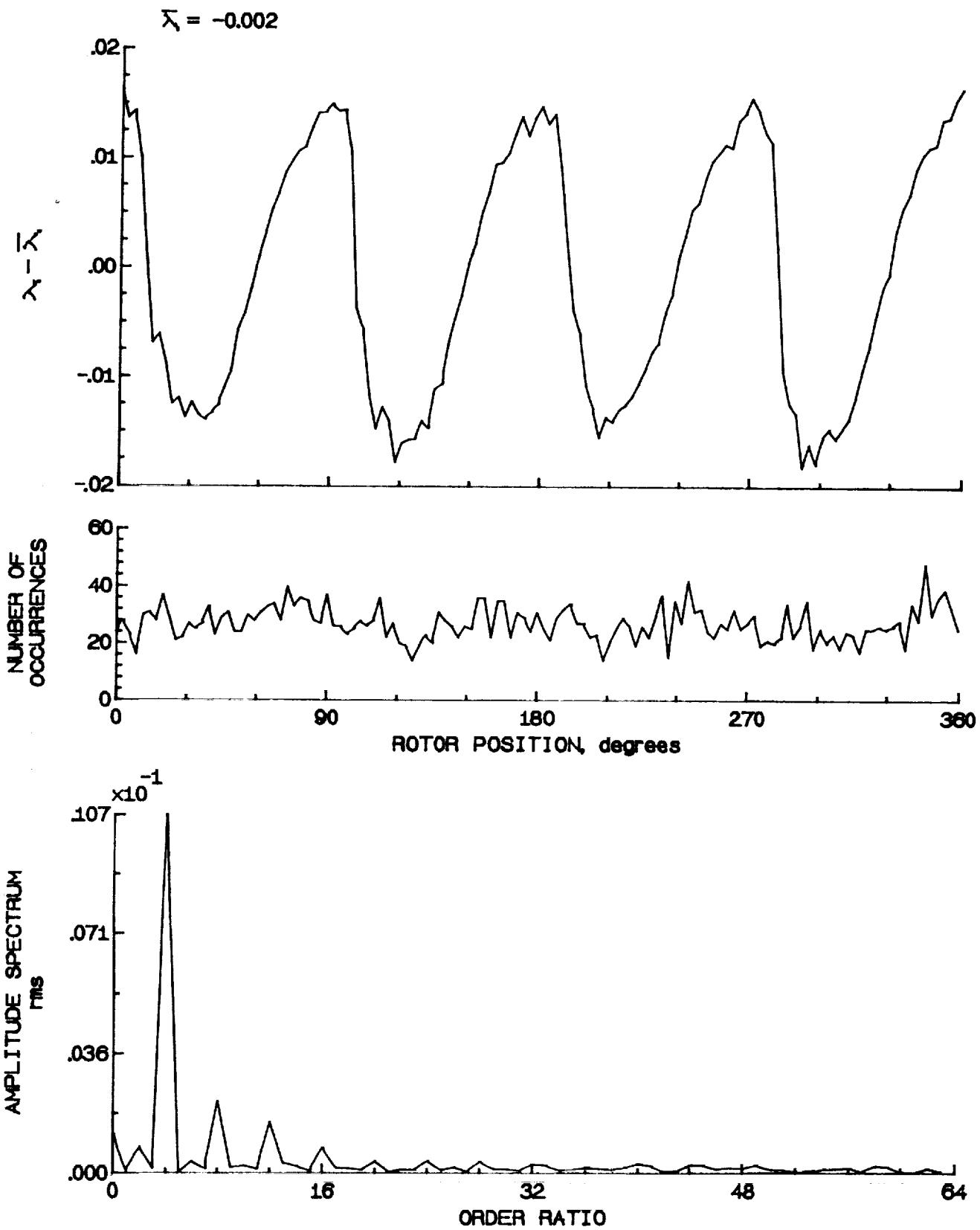


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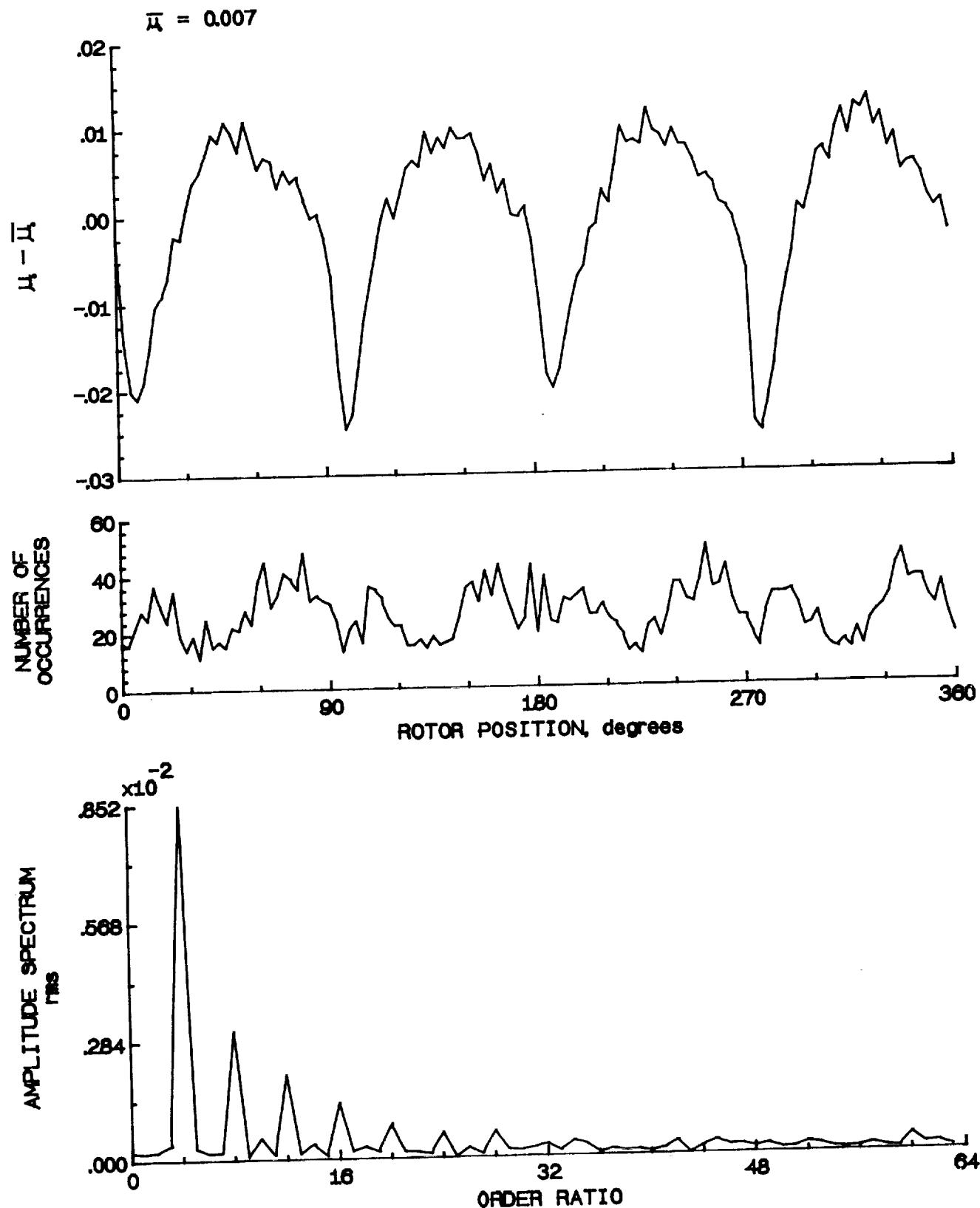


Figure 155.- Induced inflow velocity measured at 270 degrees and r/R of 0.90.

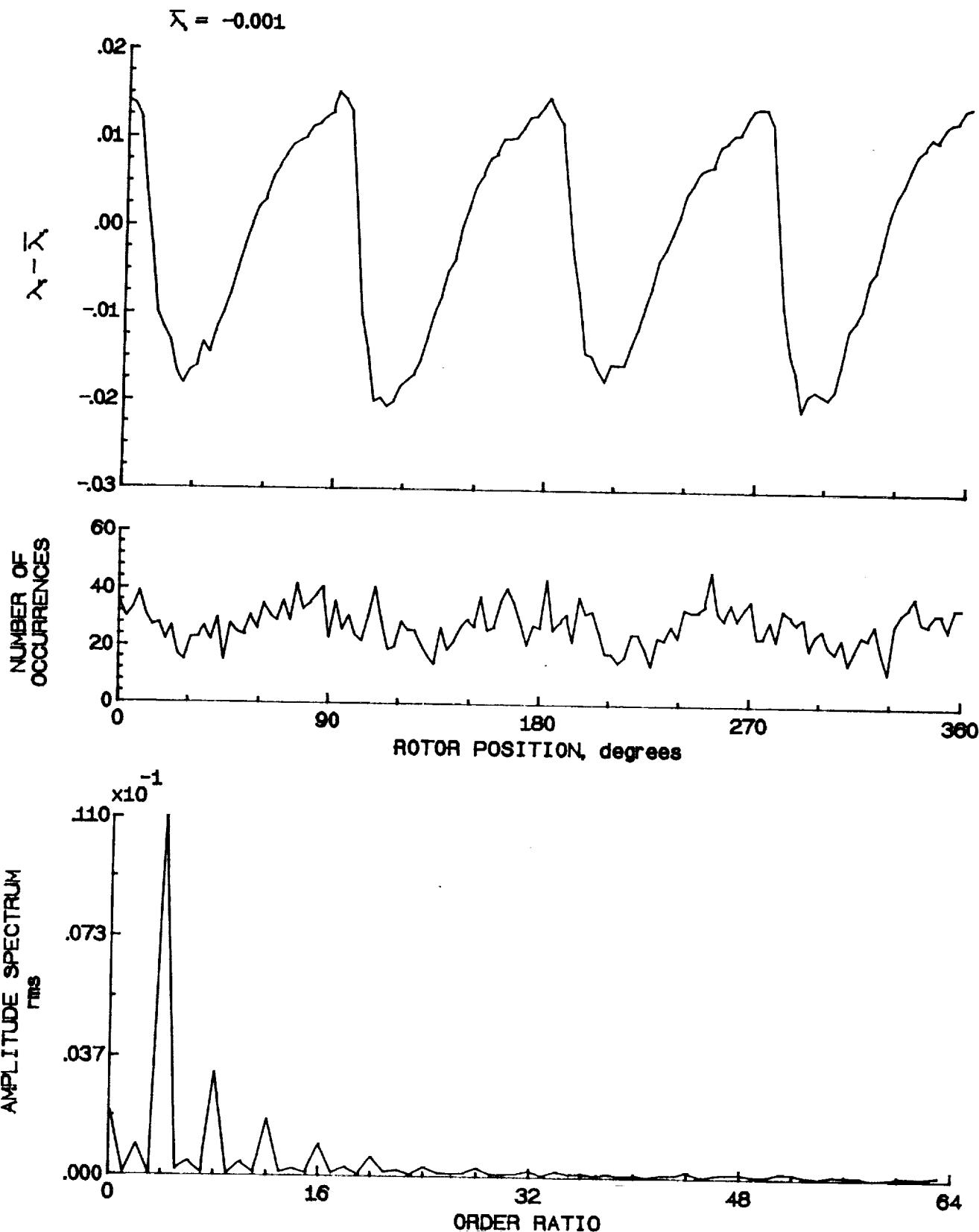


Figure 155.- Concluded.

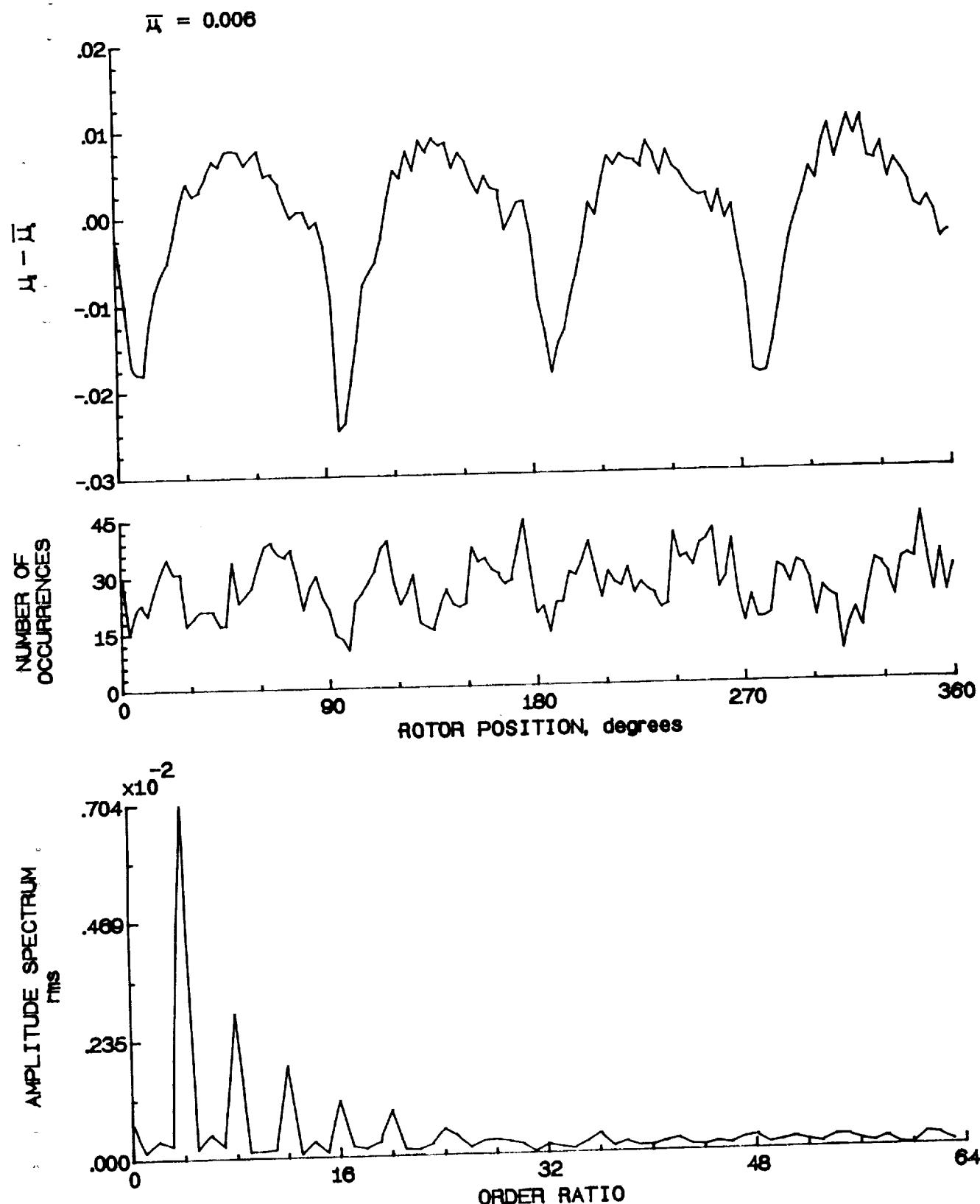


Figure 156.- Induced inflow velocity measured at 270 degrees and r/R of 0.94.

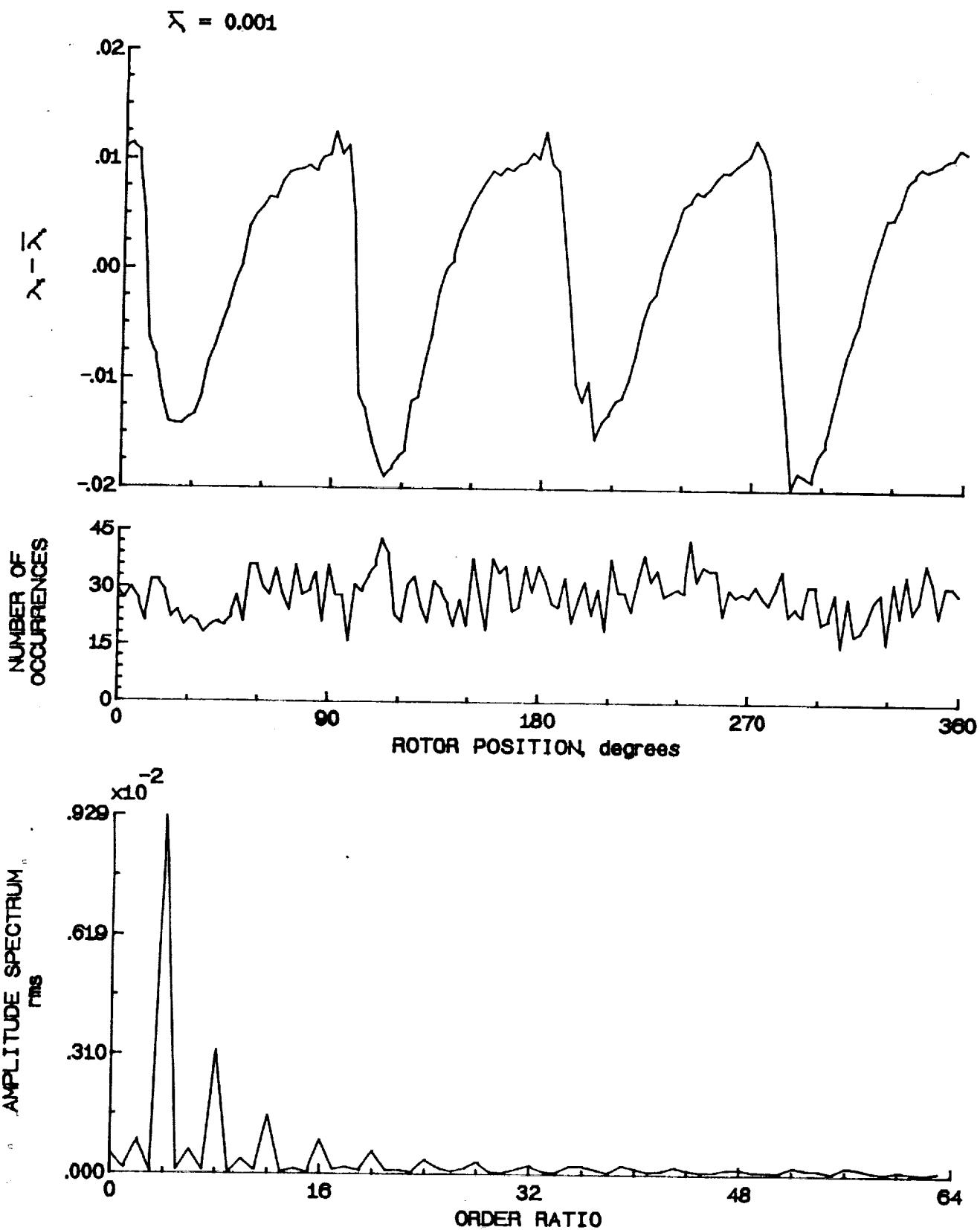


Figure 156.- Concluded.

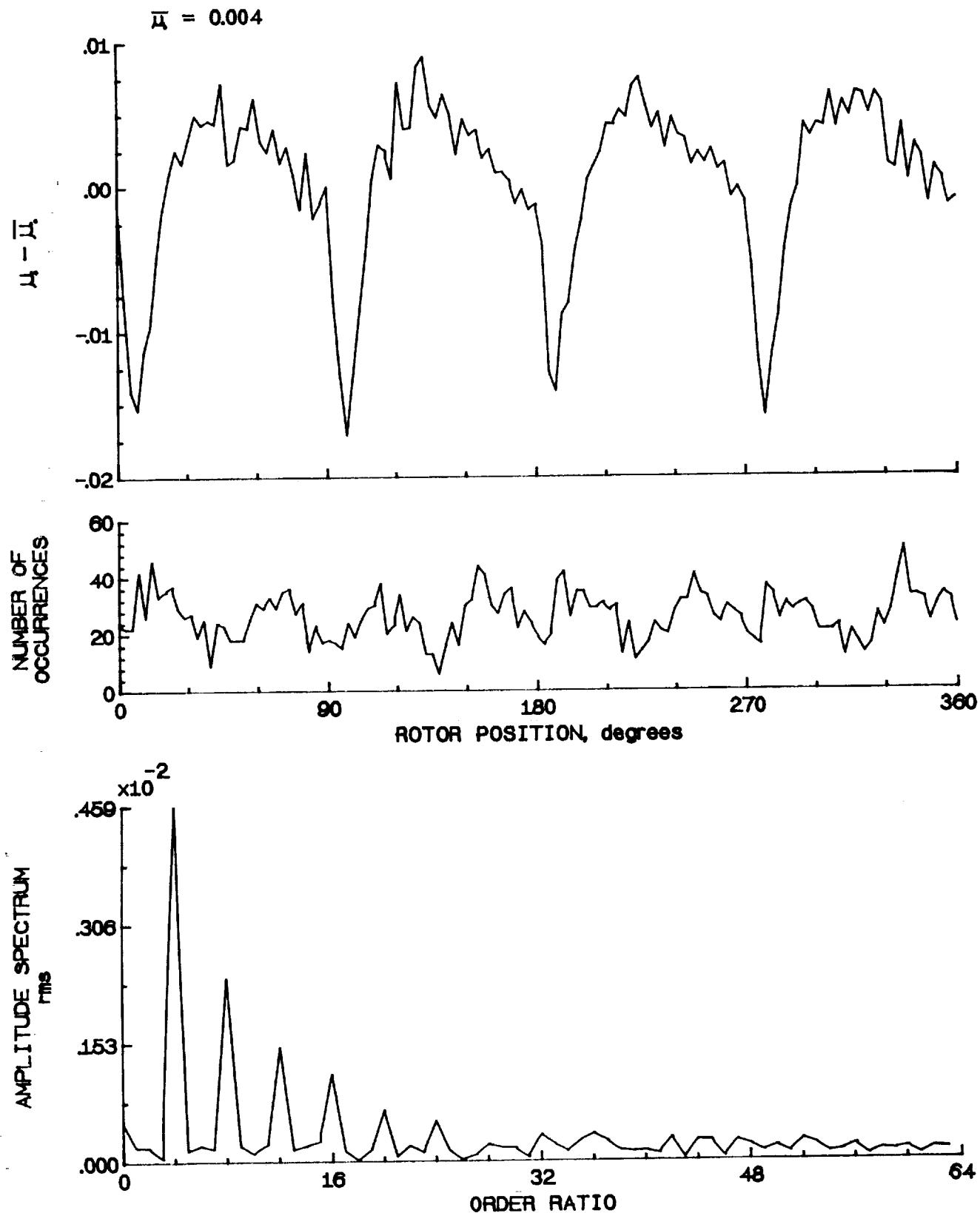


Figure 157.- Induced inflow velocity measured at 270 degrees and r/R of 1.00.

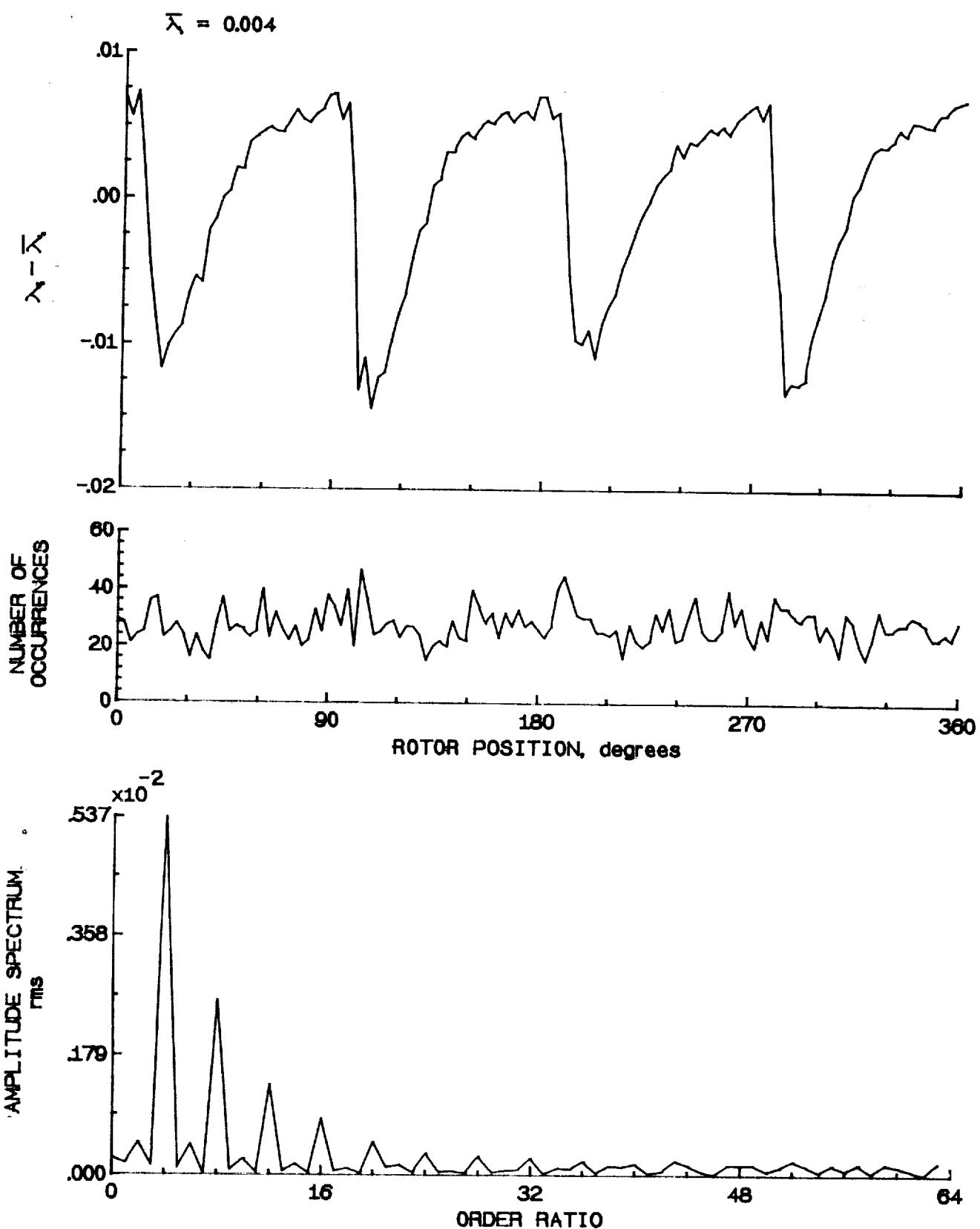


Figure 157.- Concluded.

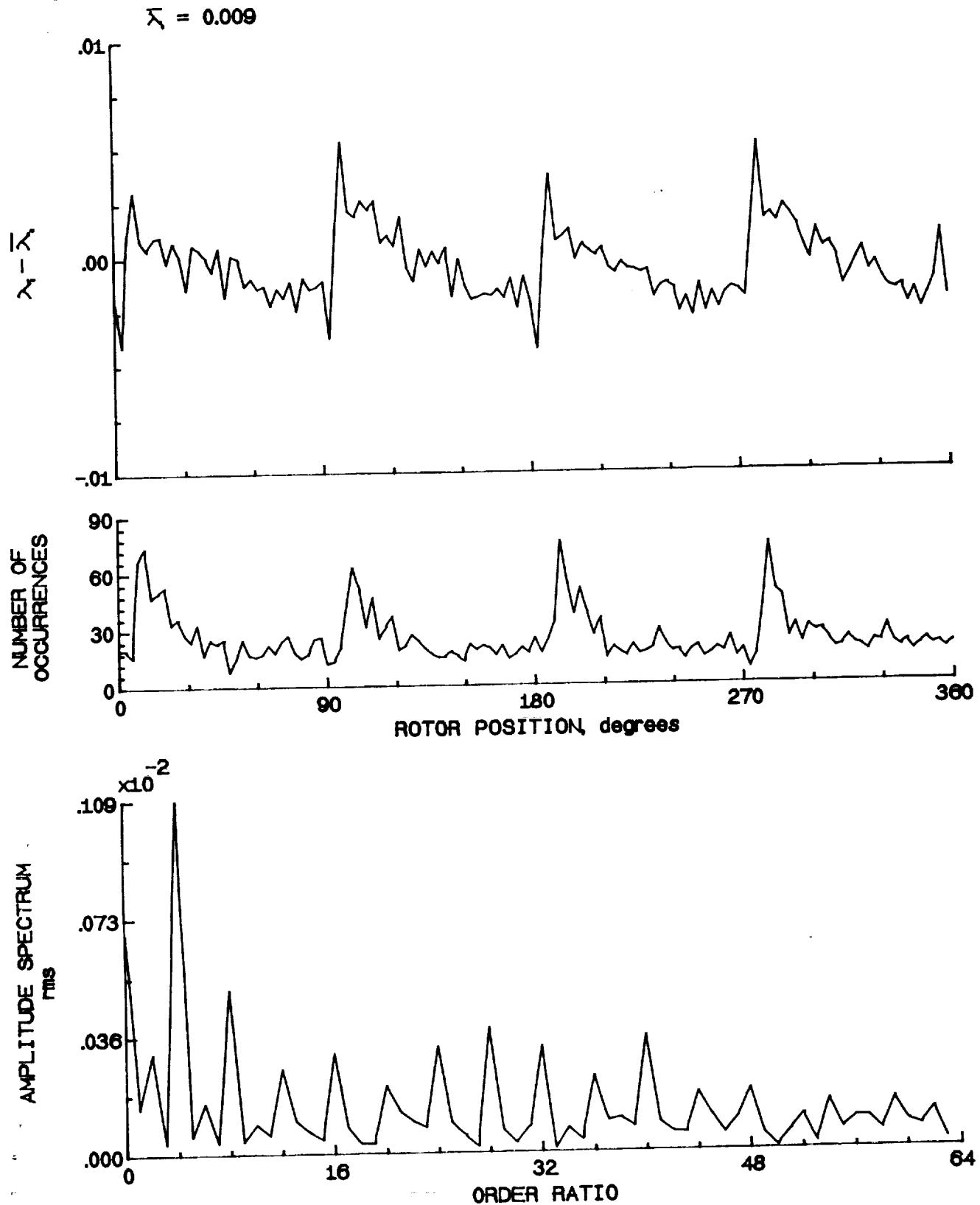


Figure 158.- Concluded.

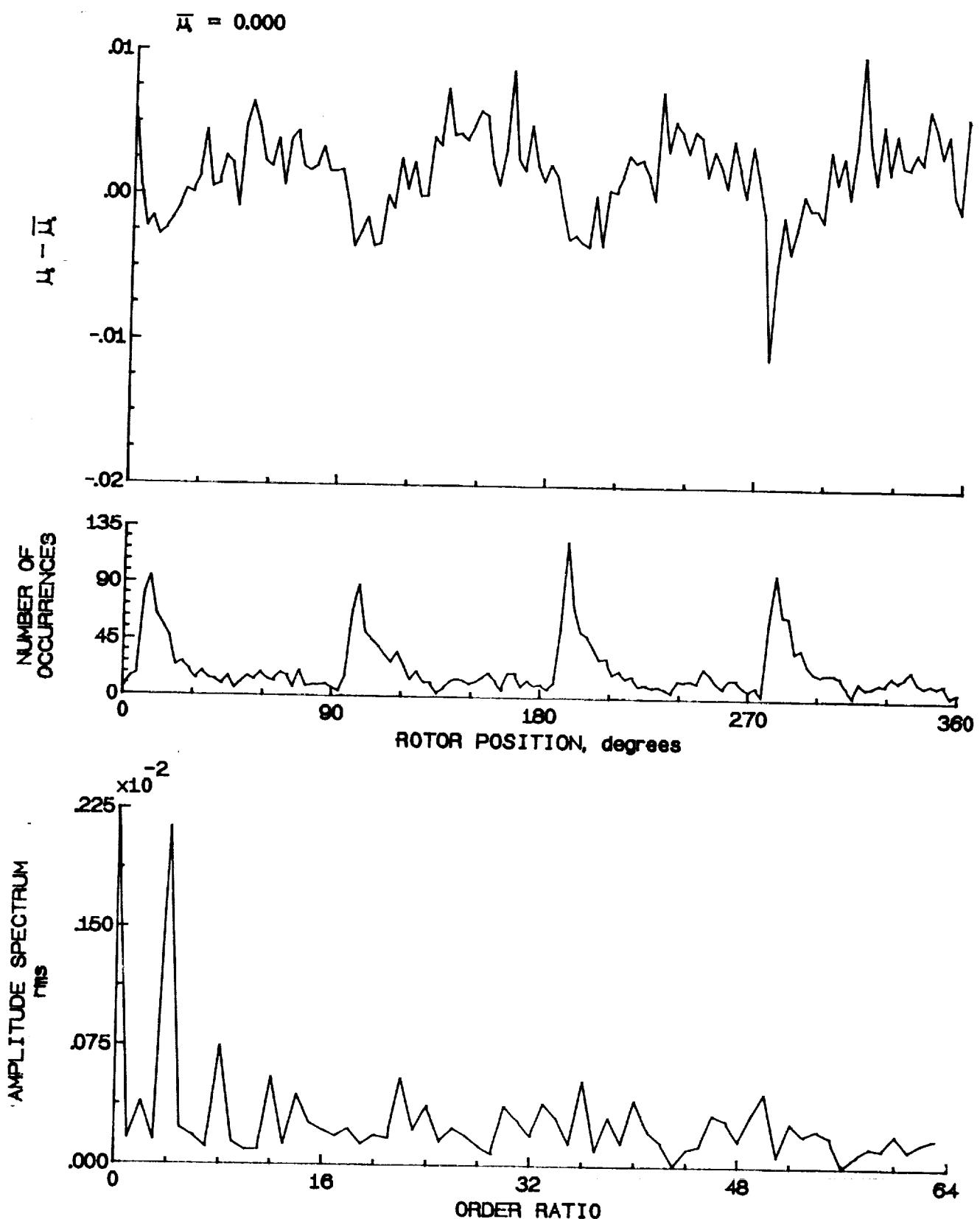


Figure 158.- Induced inflow velocity measured at 270 degrees and r/R of 1.10.

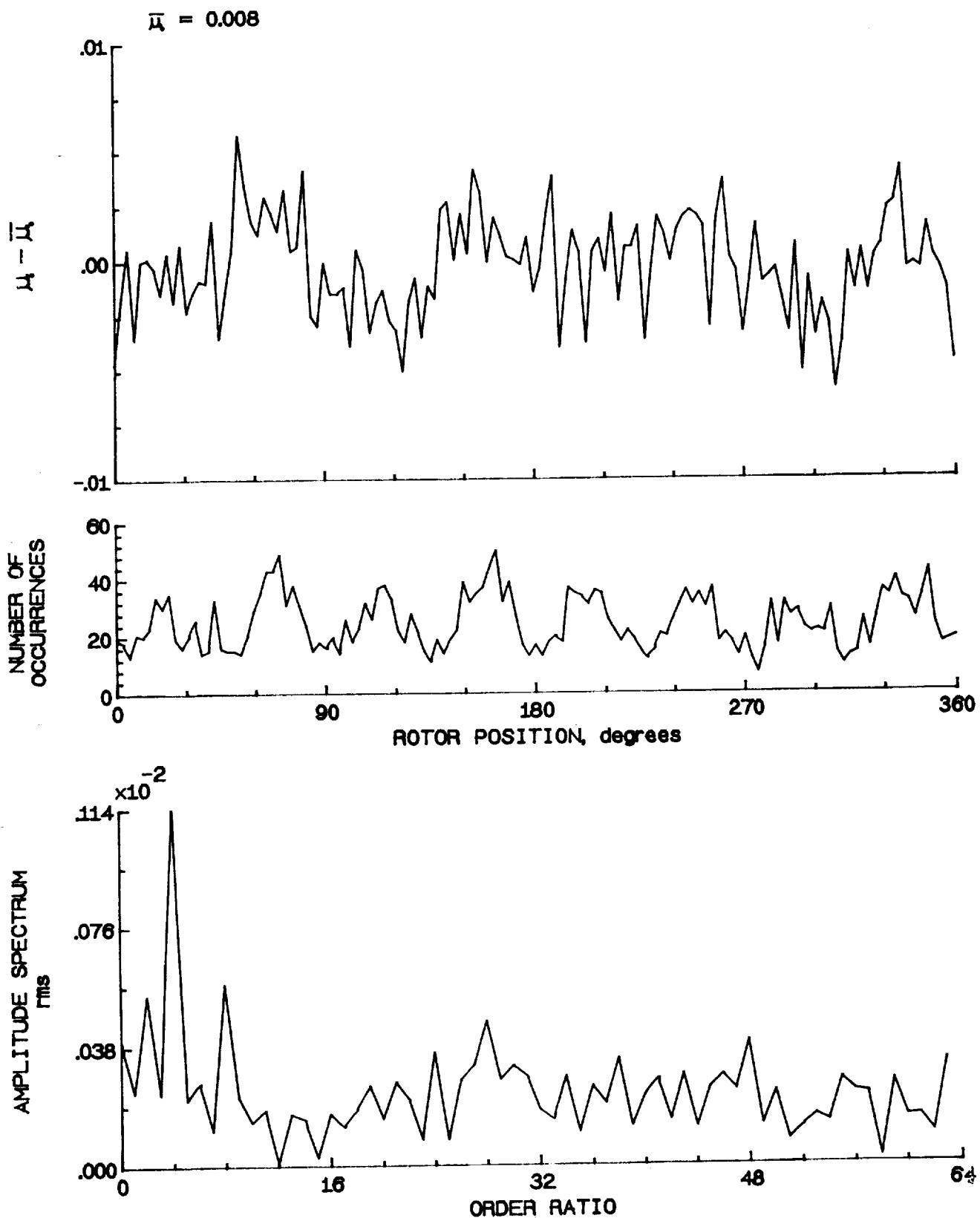


Figure 159.— Induced inflow velocity measured at 300 degrees and r/R of 0.20.

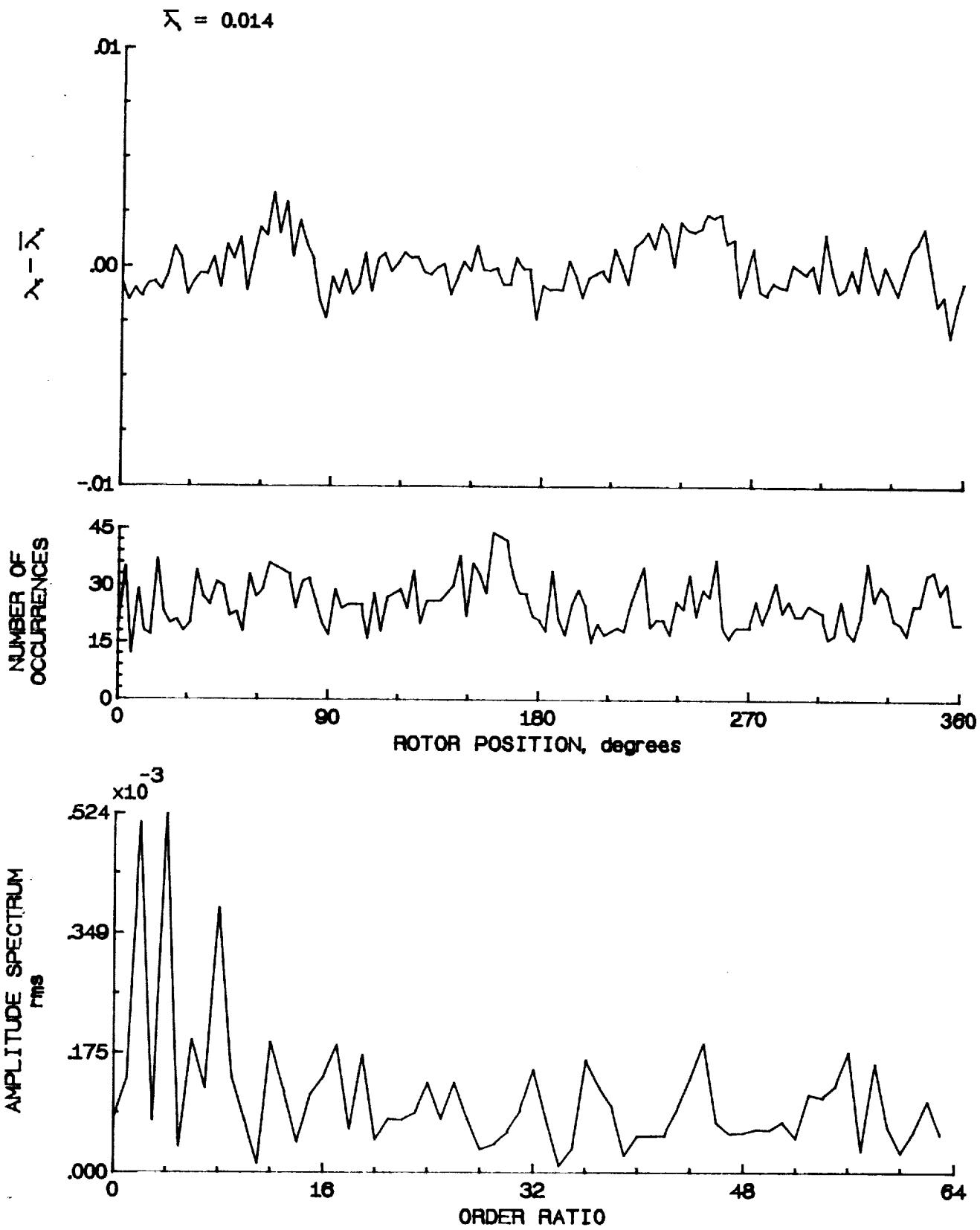


Figure 159.- Concluded.

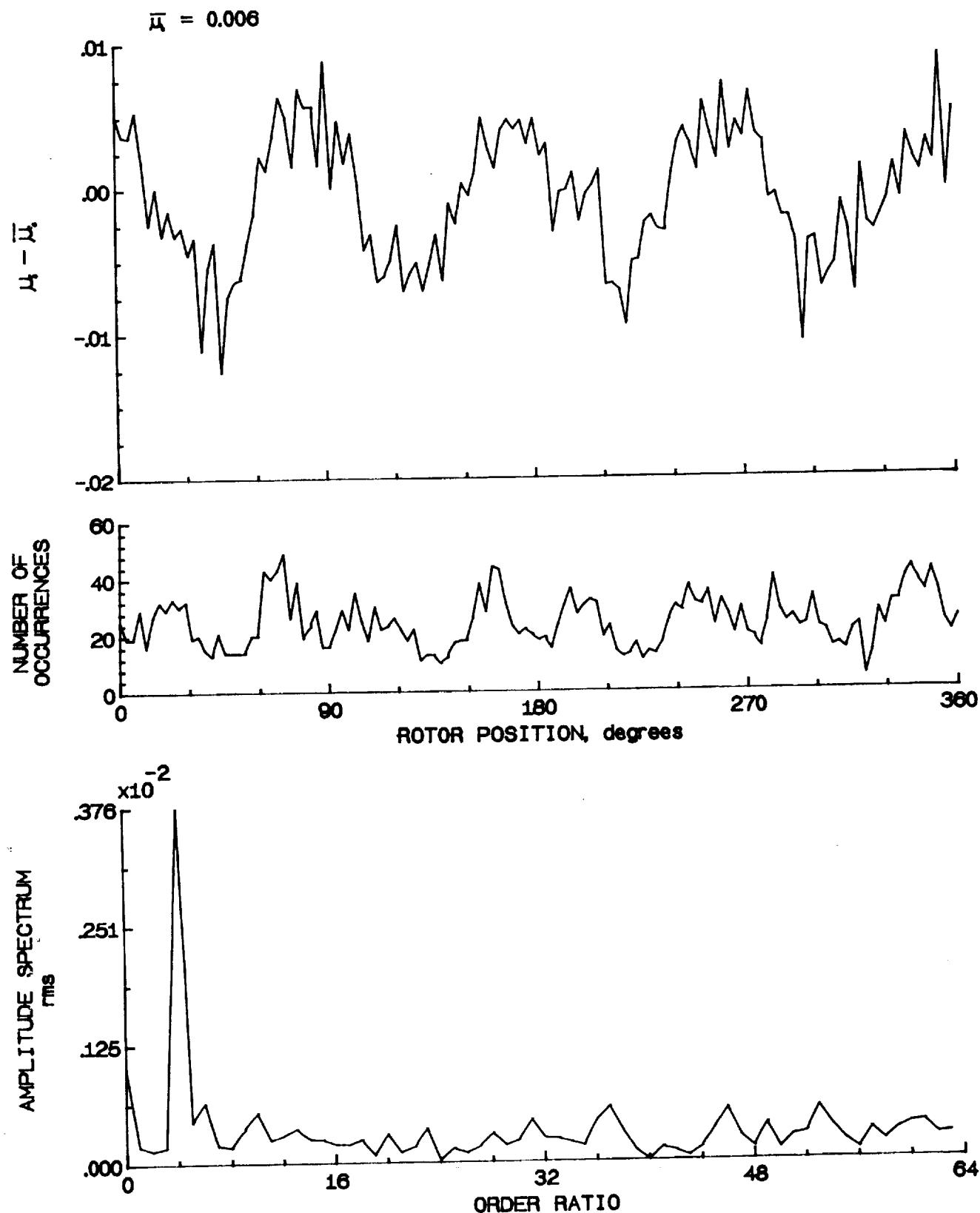


Figure 160.- Induced inflow velocity measured at 300 degrees and r/R of 0.32.

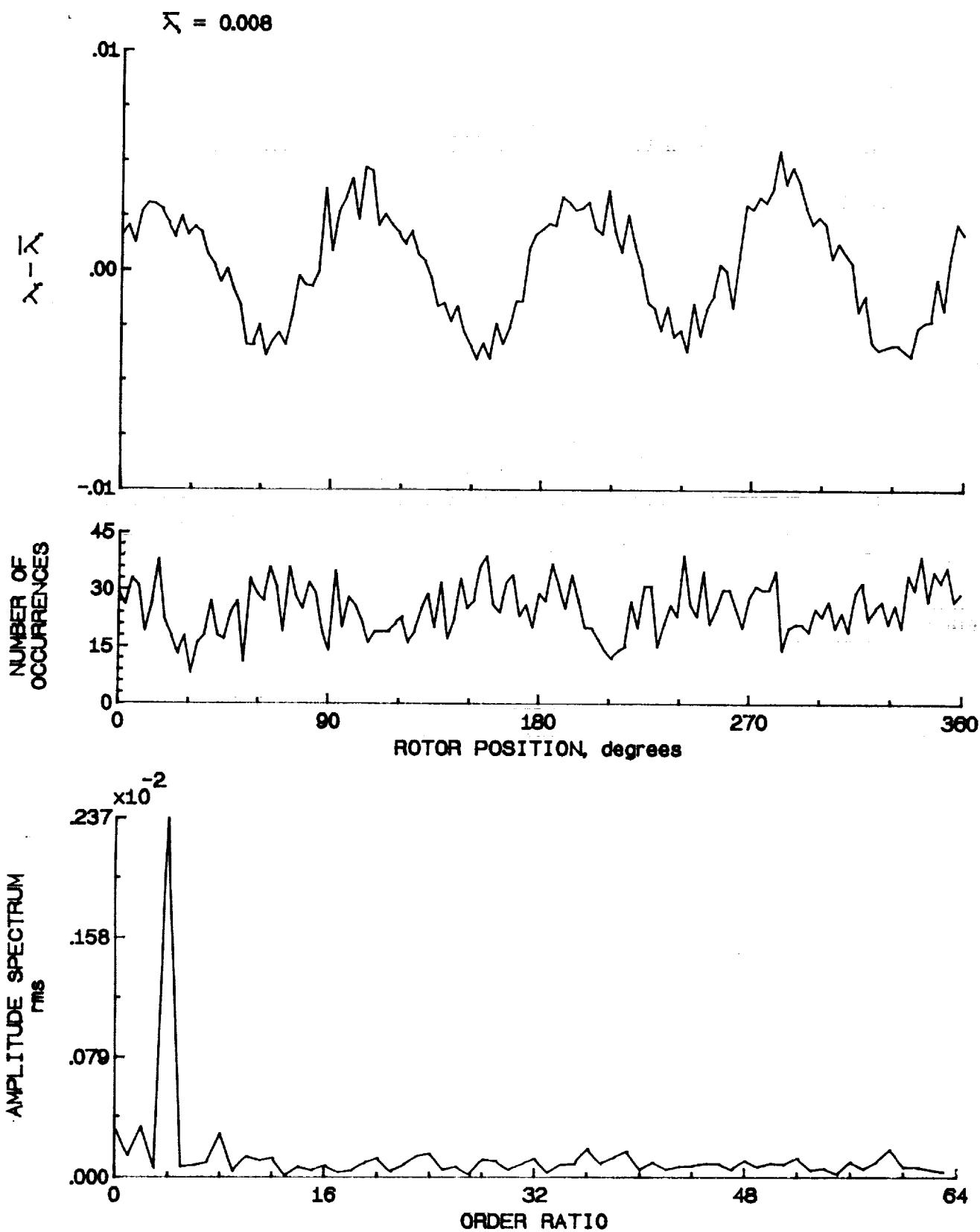


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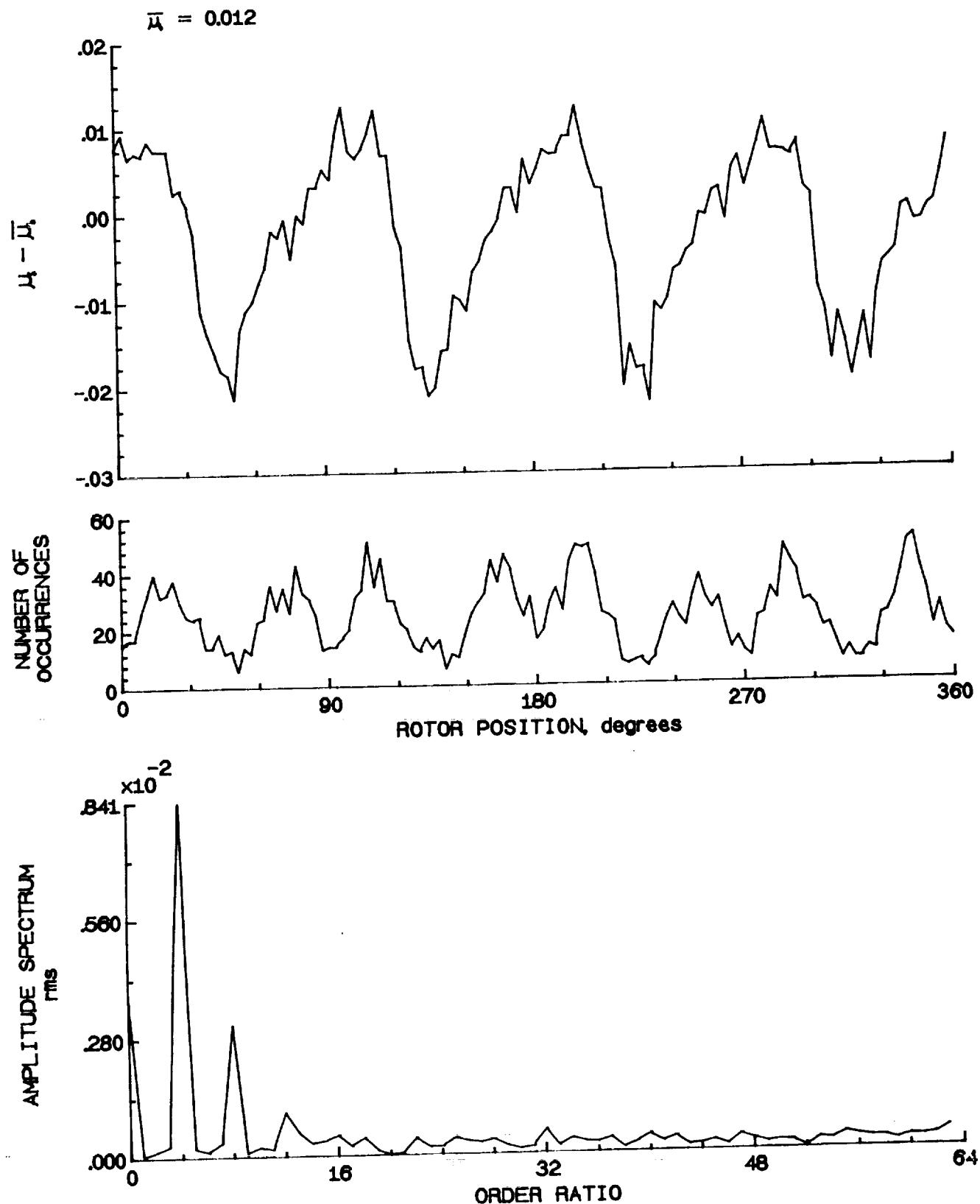


Figure 161- Induced inflow velocity measured at 300 degrees and r/R of 0.50.

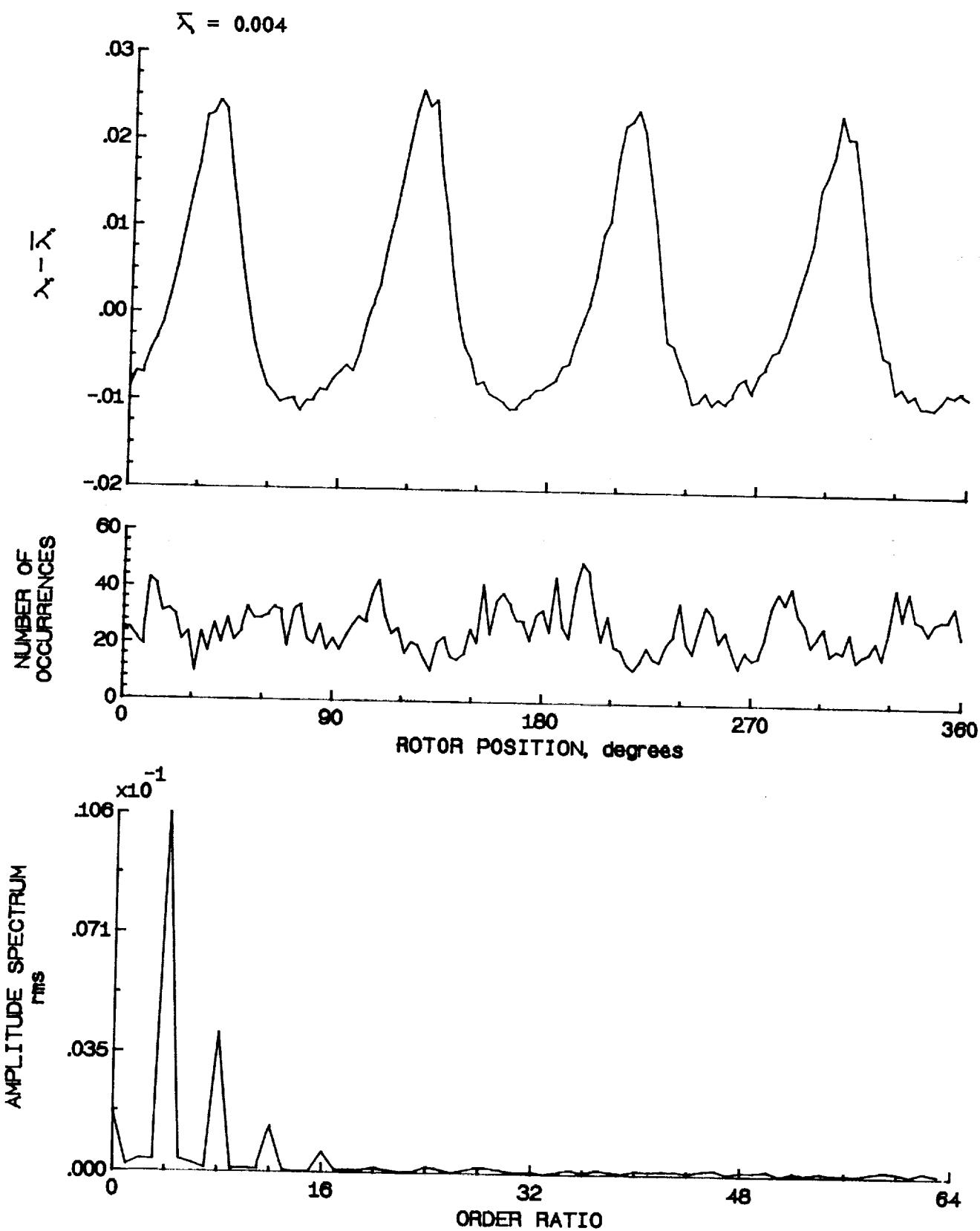


Figure 161.- Concluded.

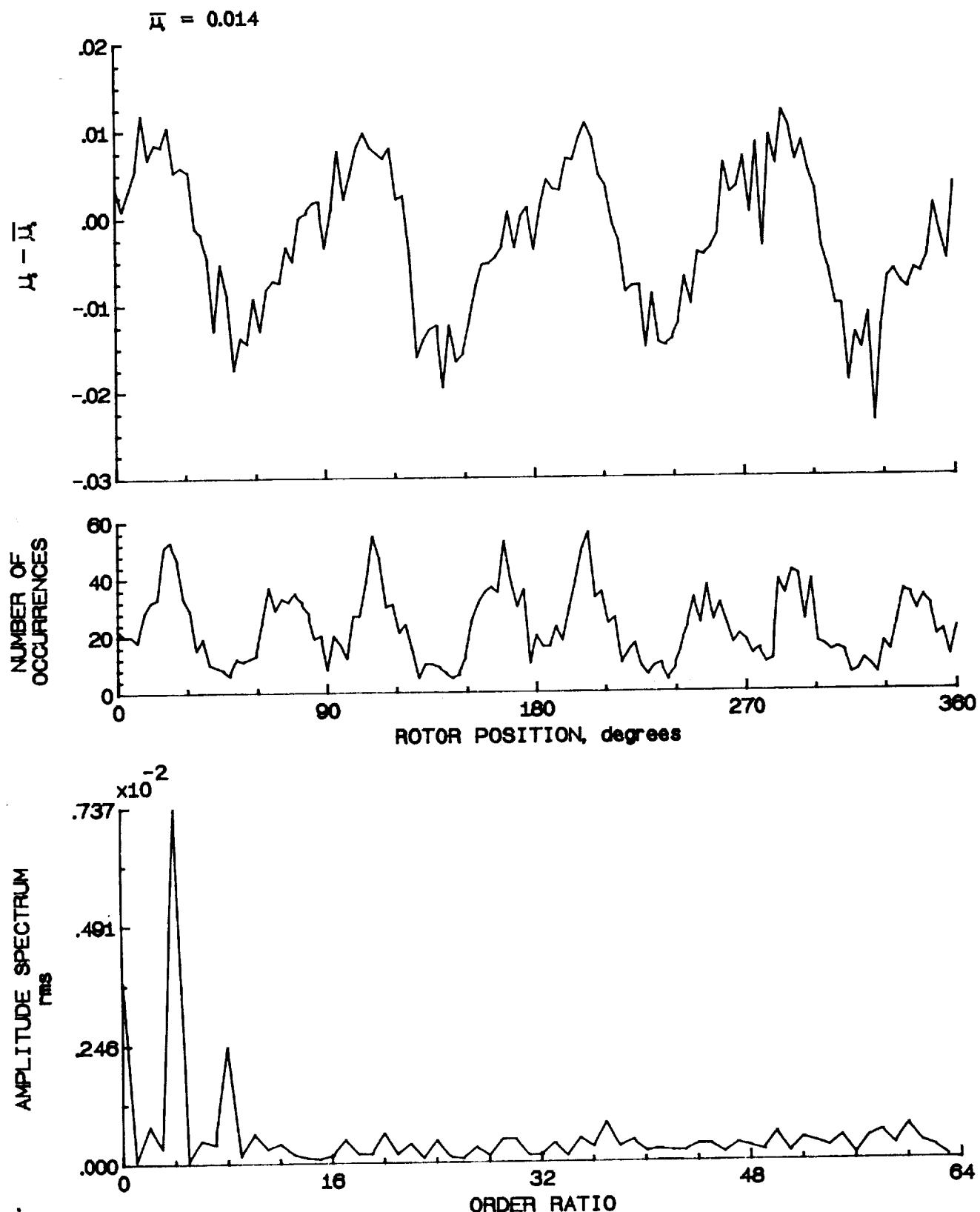


Figure 162.- Induced inflow velocity measured at 300 degrees and r/R of 0.58.

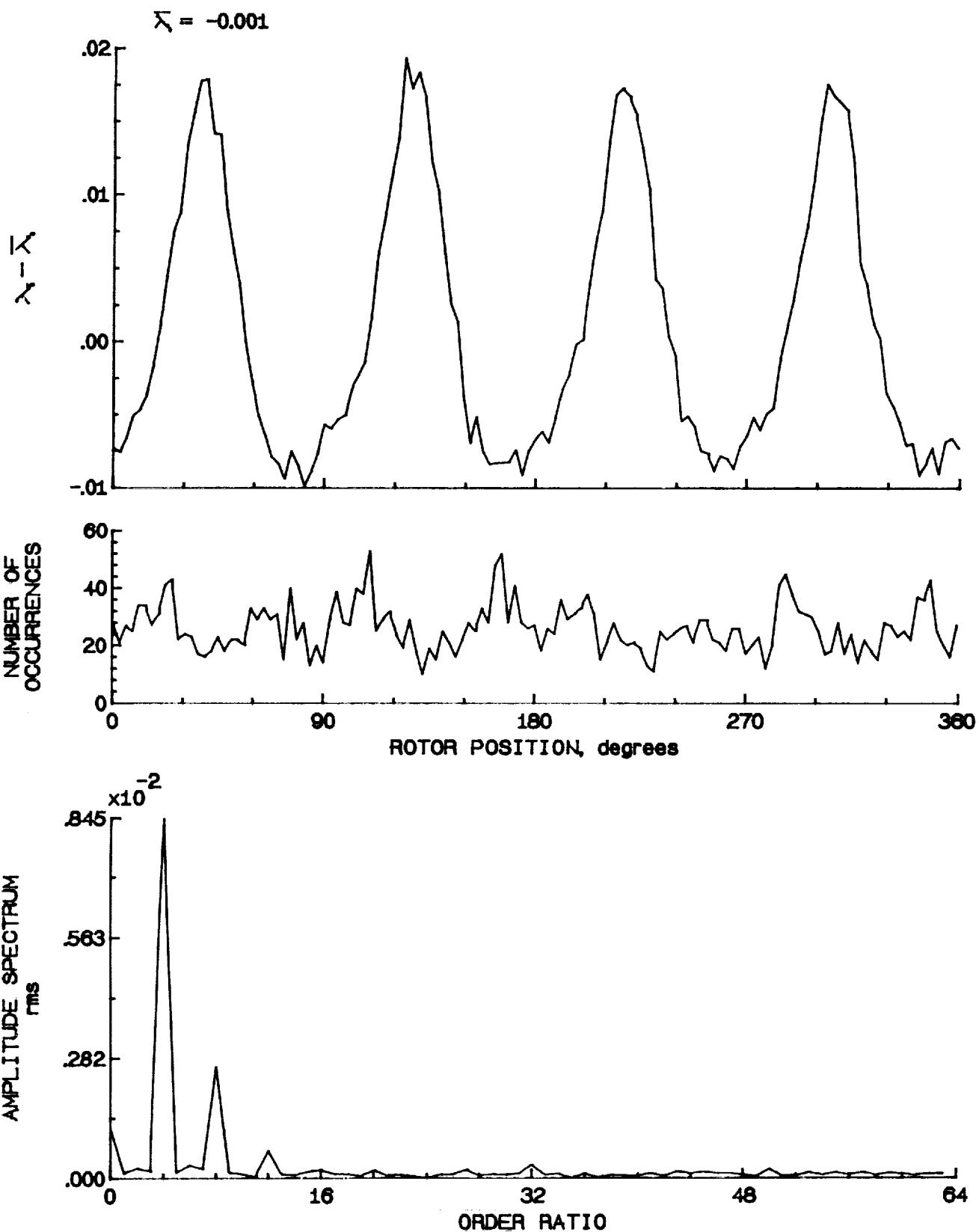


Figure 162- Concluded.

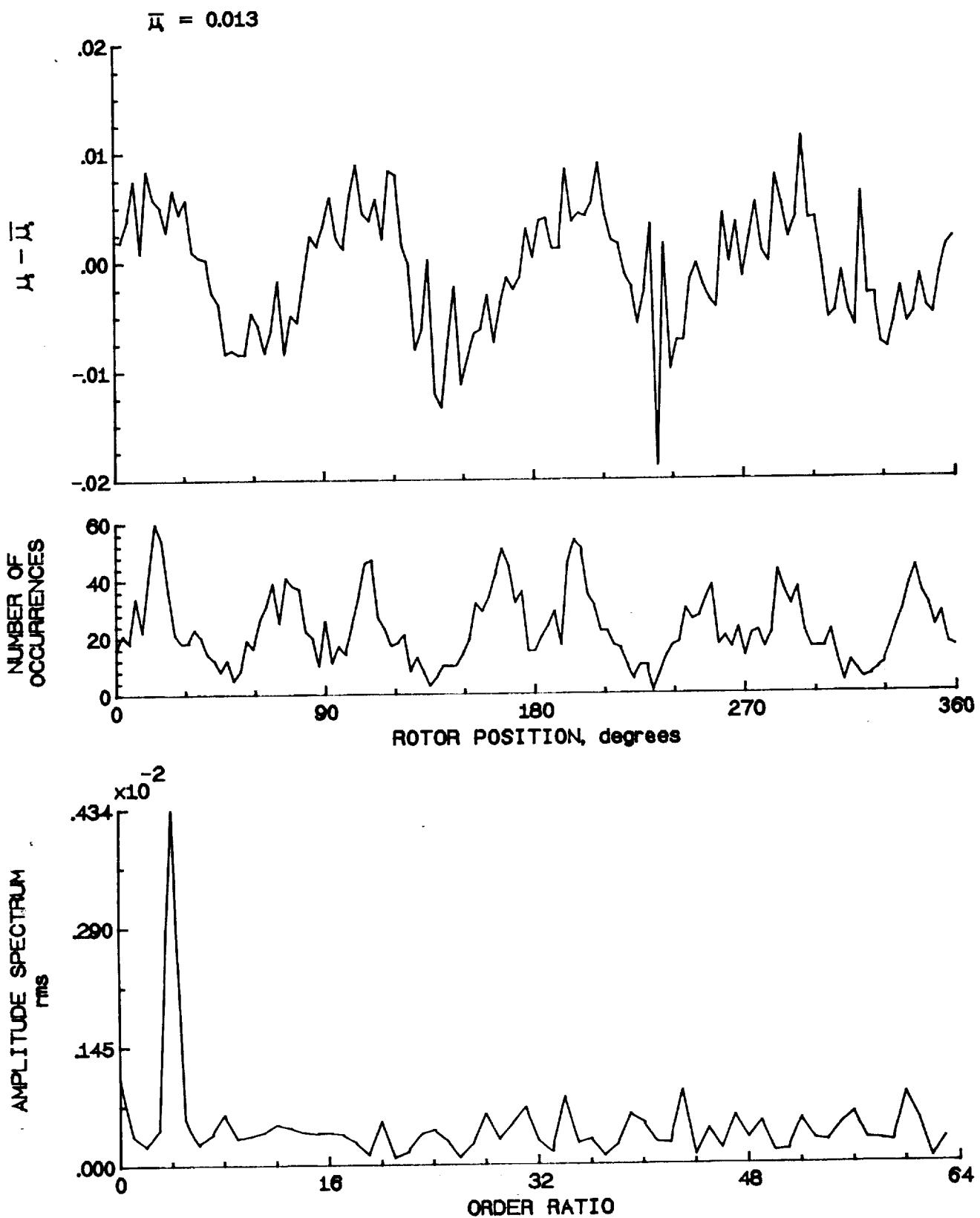


Figure 163.- Induced inflow velocity measured at 300 degrees and r/R of 0.69.

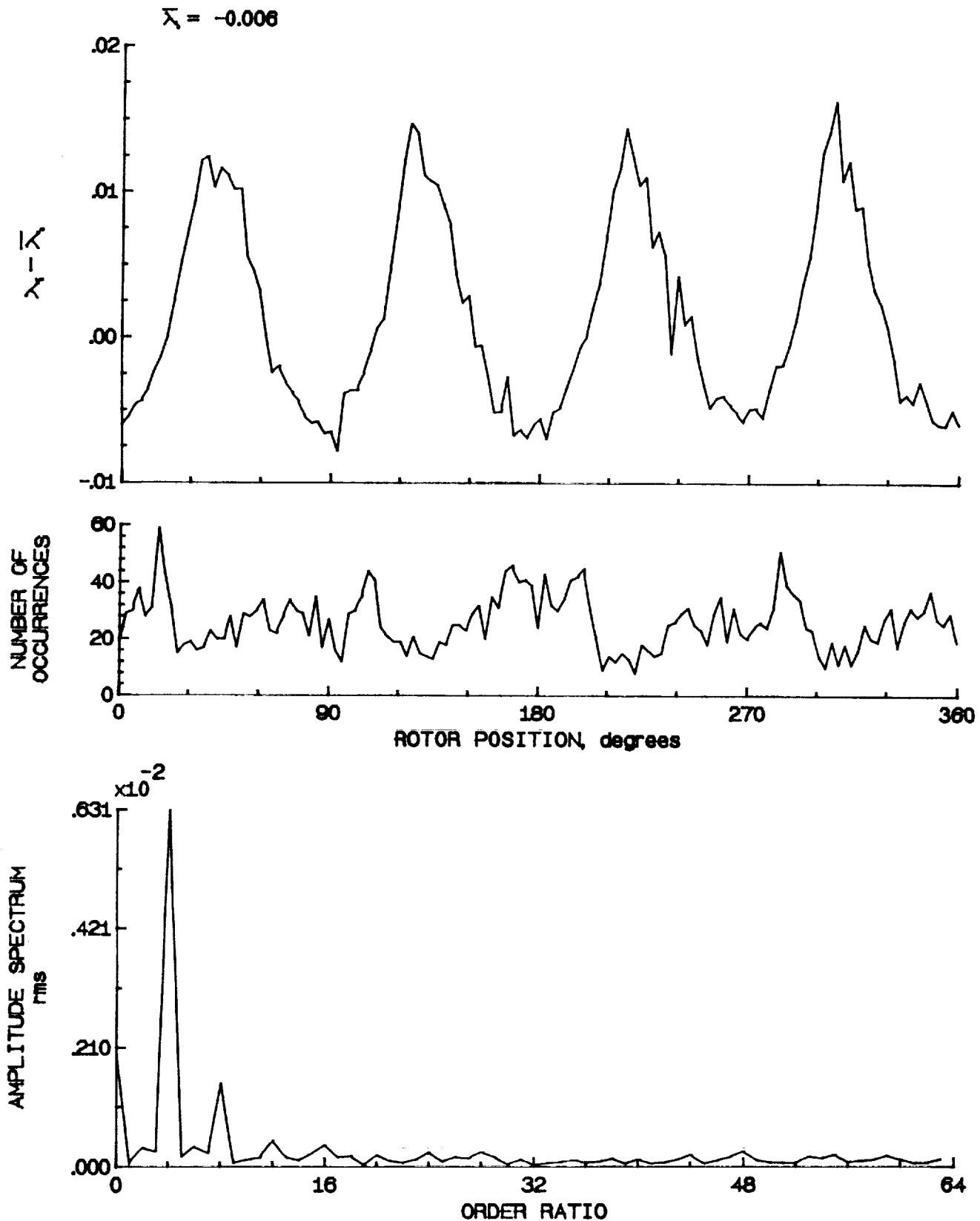


Figure 163.- Concluded.

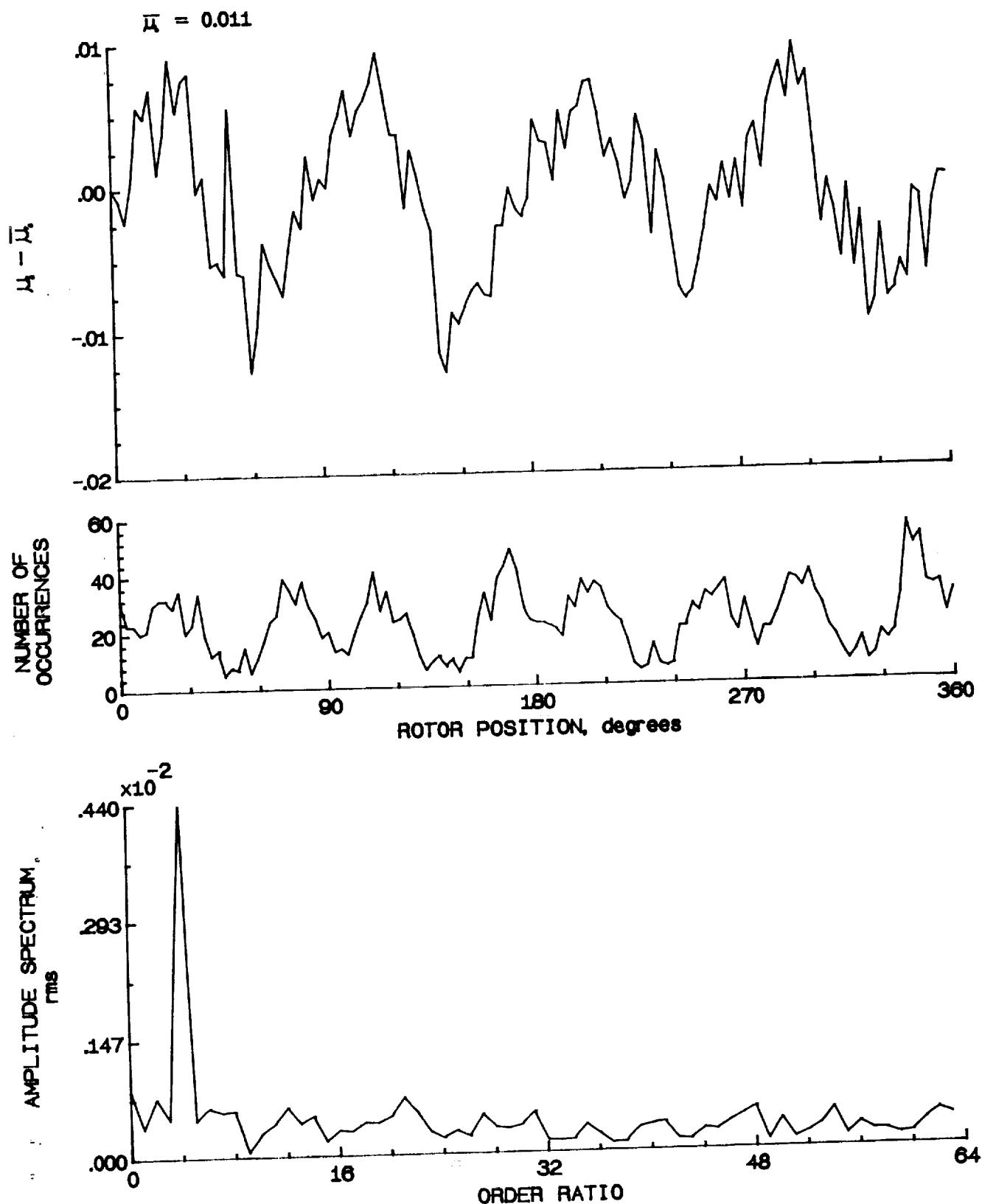


Figure 164.- Induced inflow velocity measured at 300 degrees and r/R of 0.73.

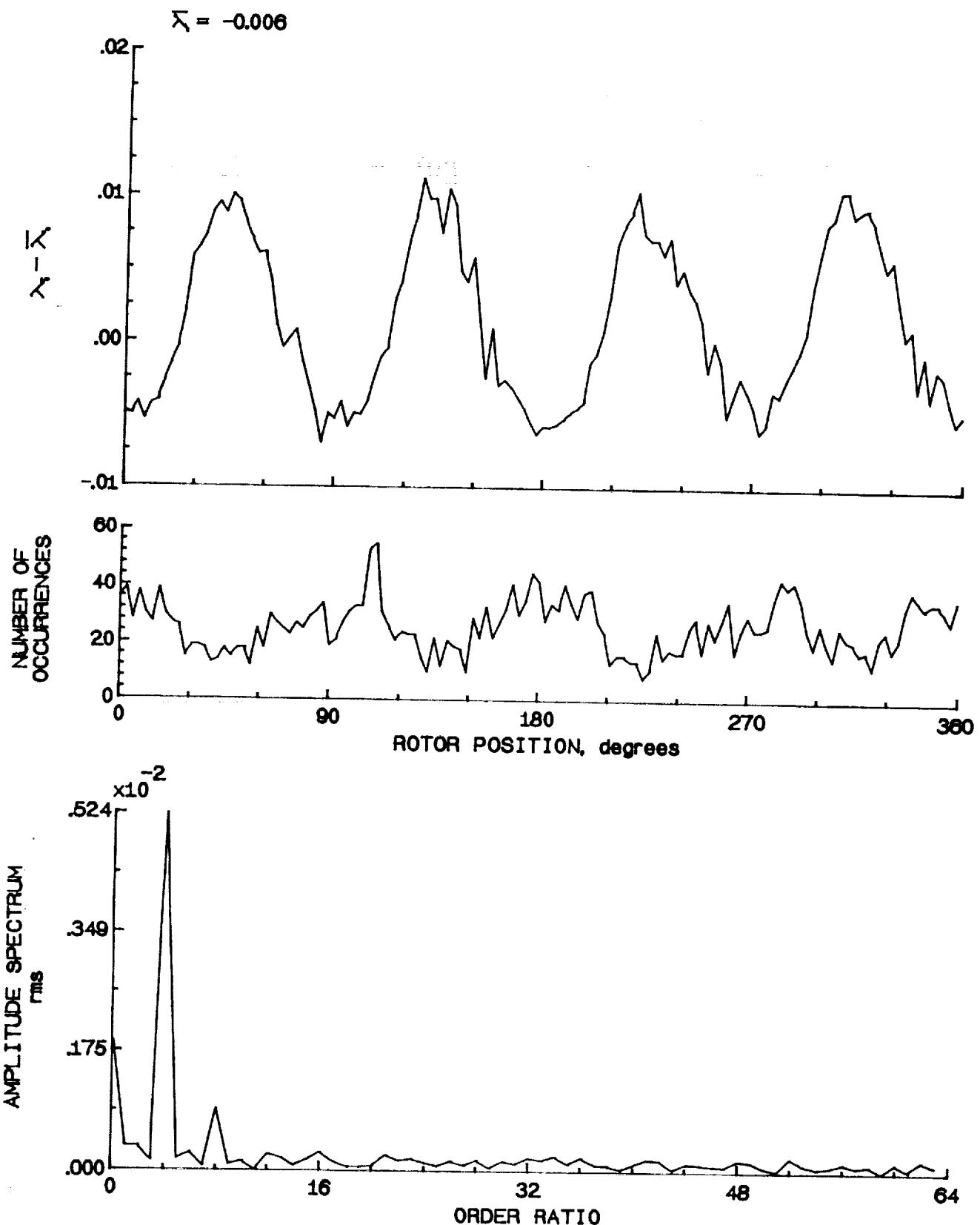


Figure 164.- Concluded.

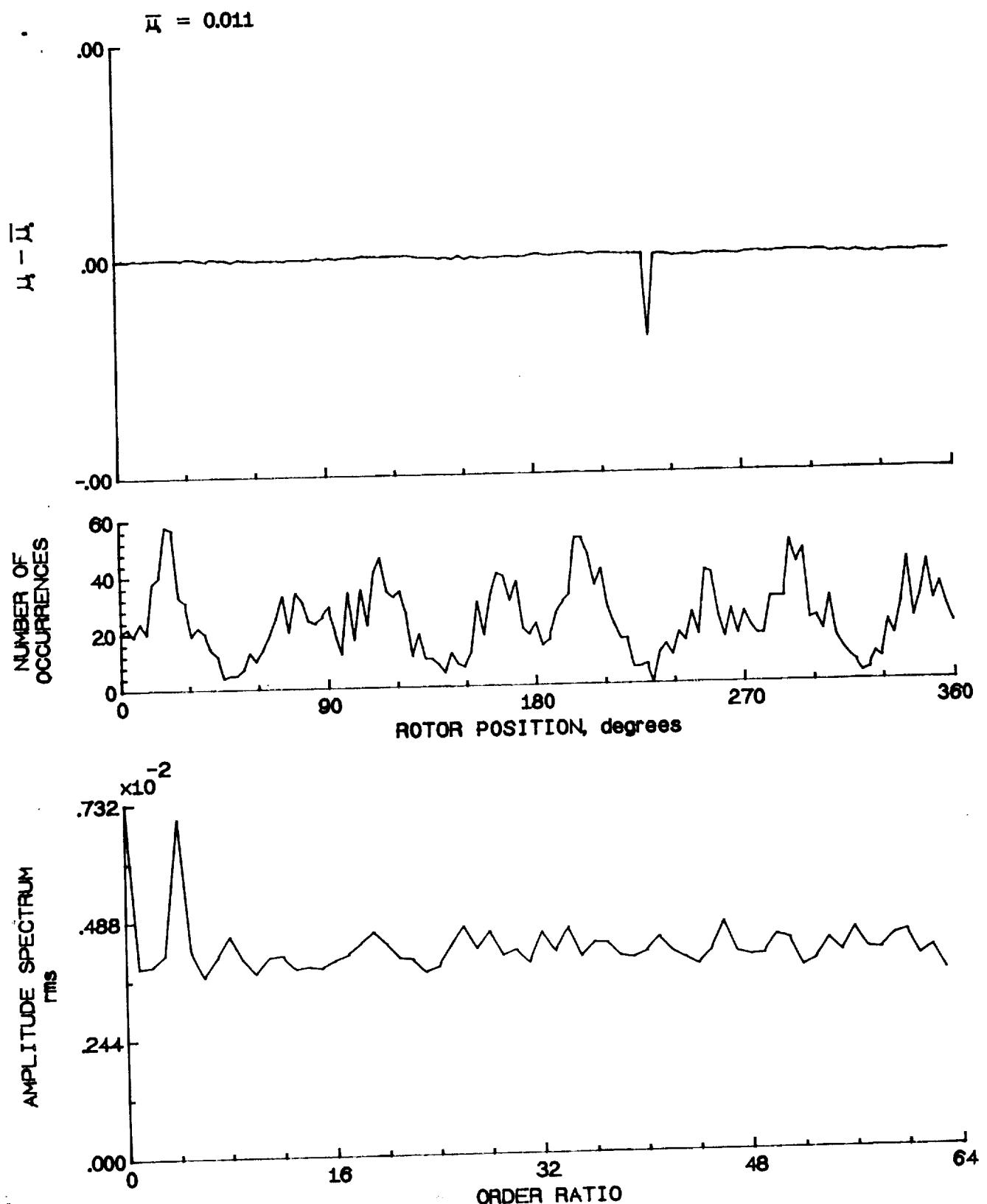


Figure 165.- Induced inflow velocity measured at 300 degrees and r/R of 0.75.

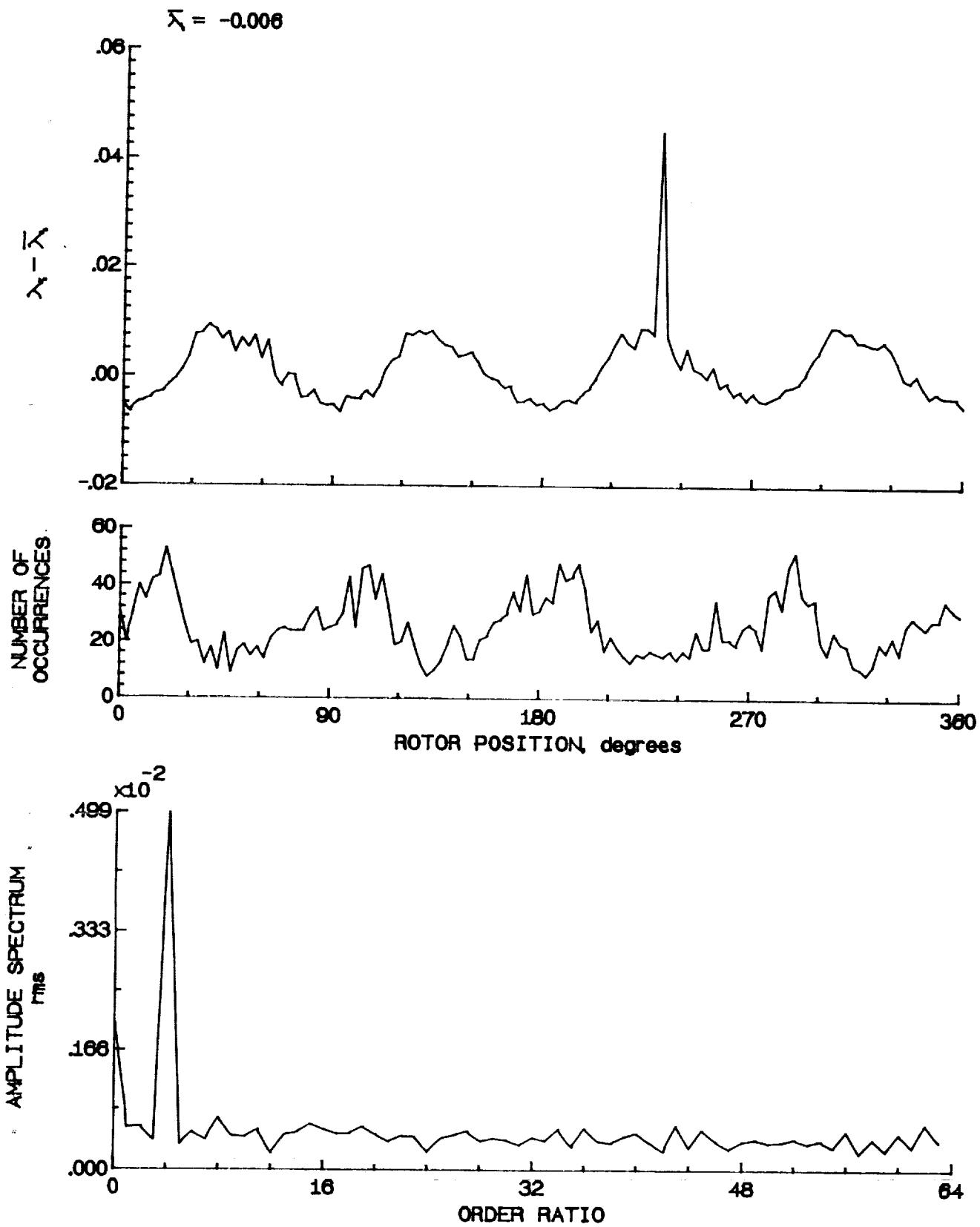


Figure 165.- Concluded.

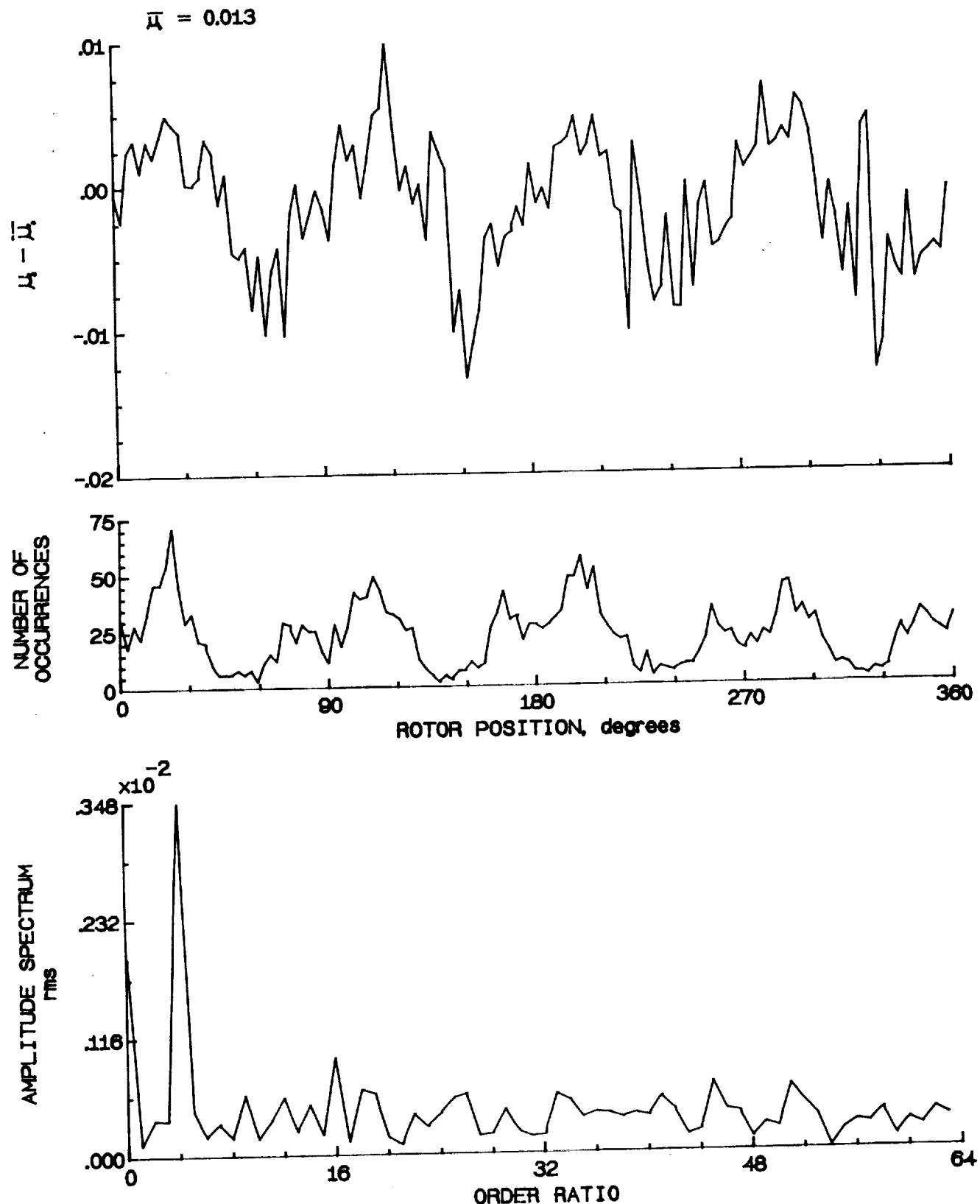


Figure 166.- Induced inflow velocity measured at 300 degrees and r/R of 0.81.

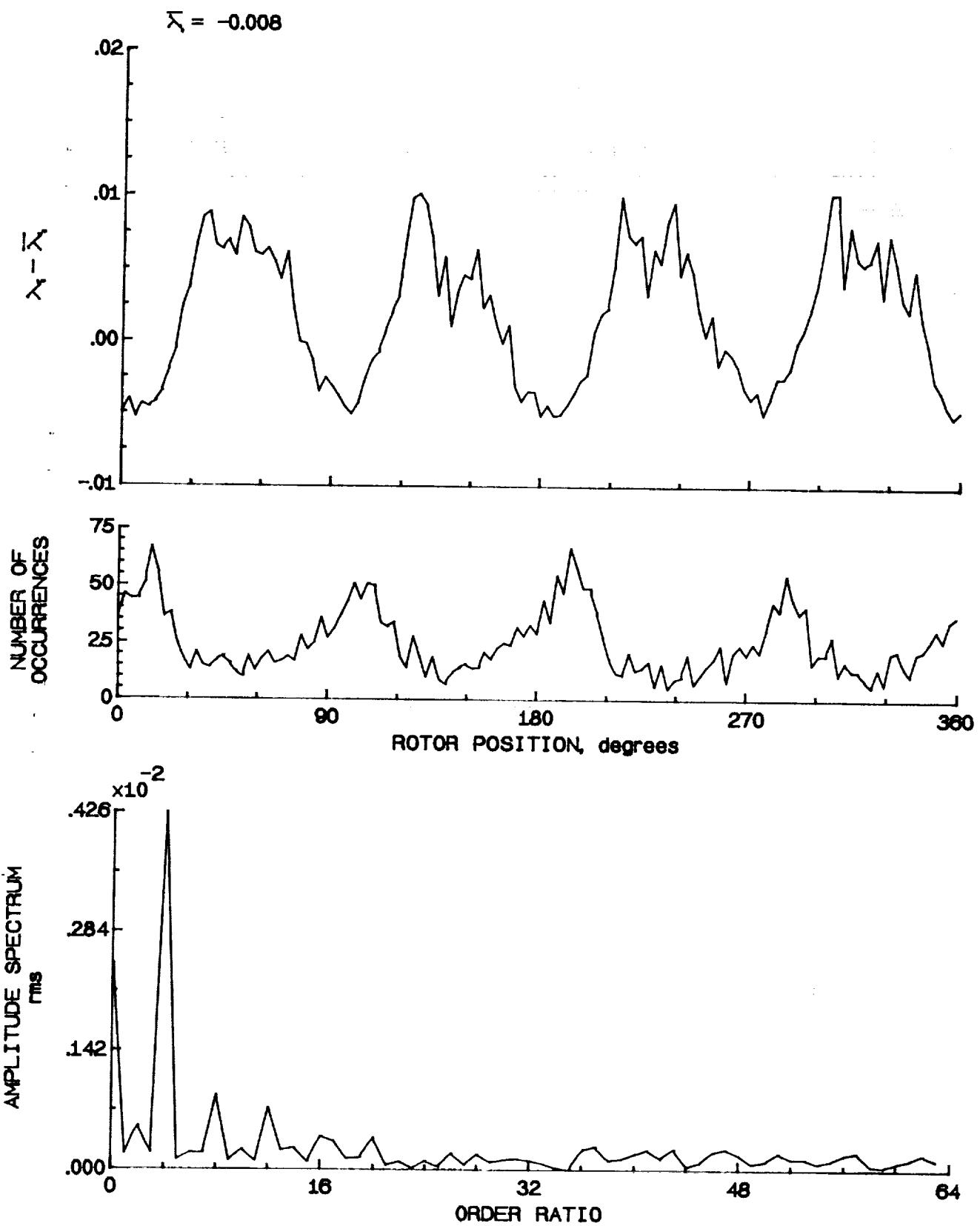


Figure 166.- Concluded.

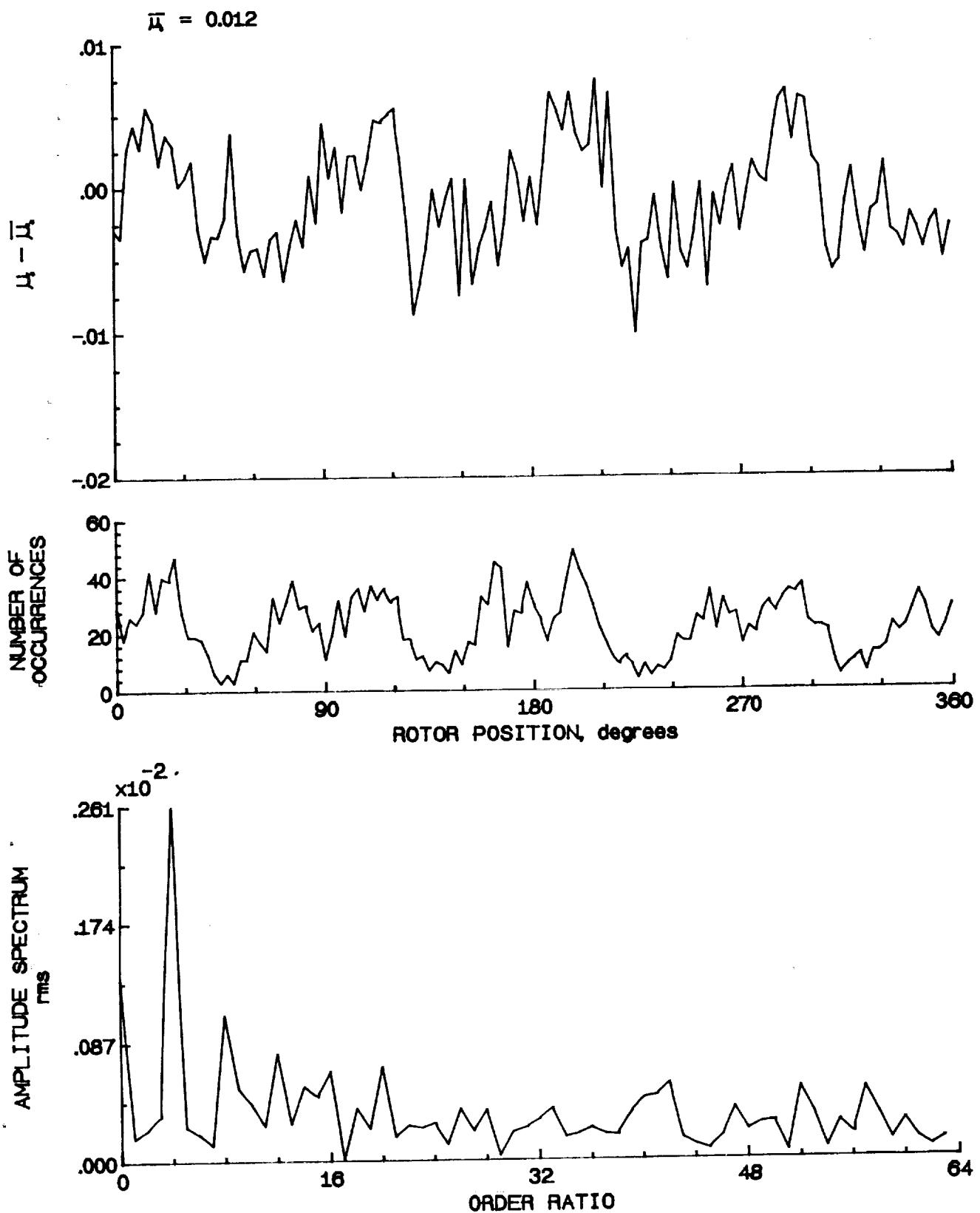


Figure 167.- Induced inflow velocity measured at
 300 degrees and r/R of 0.86.

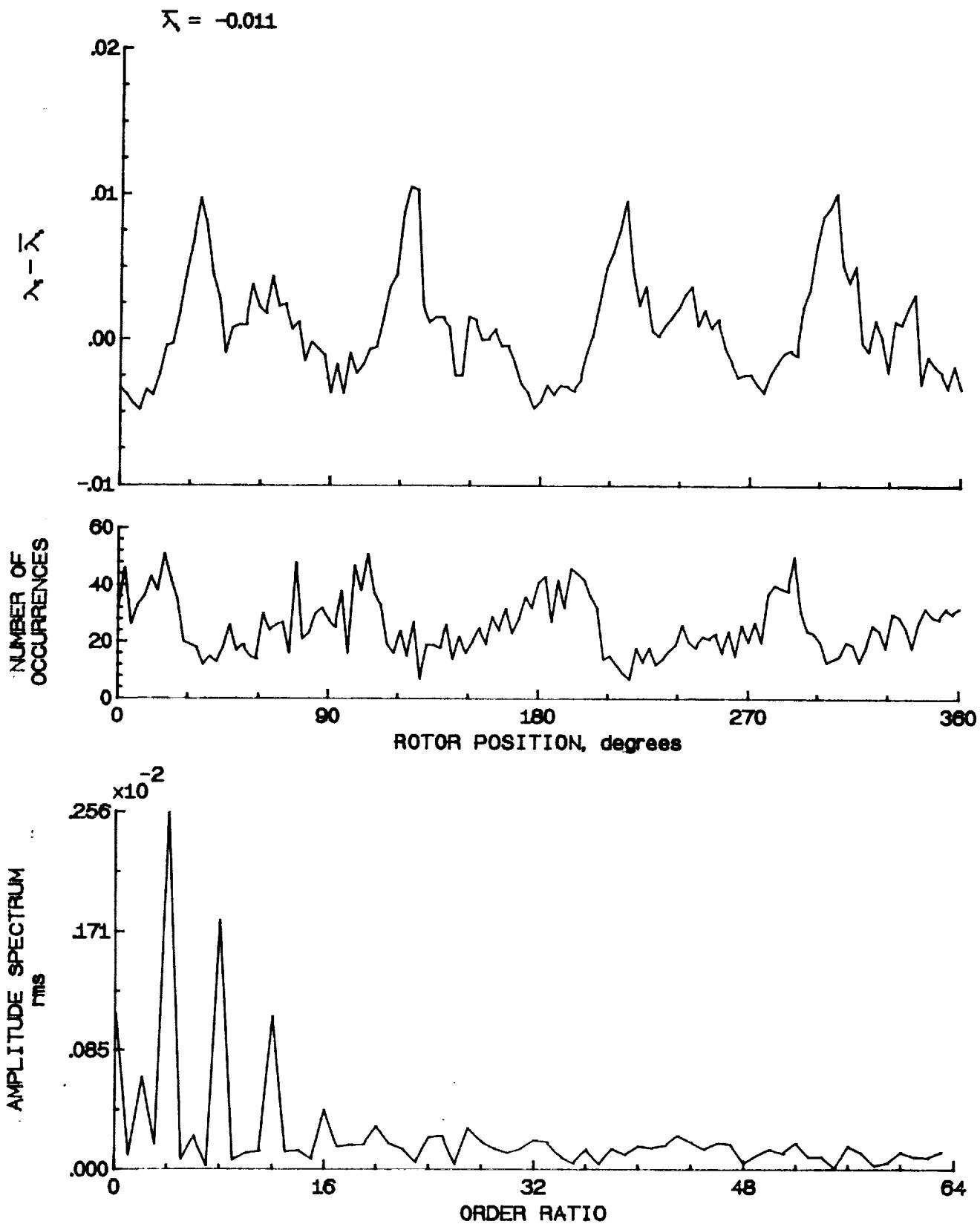


Figure 167.- Concluded.

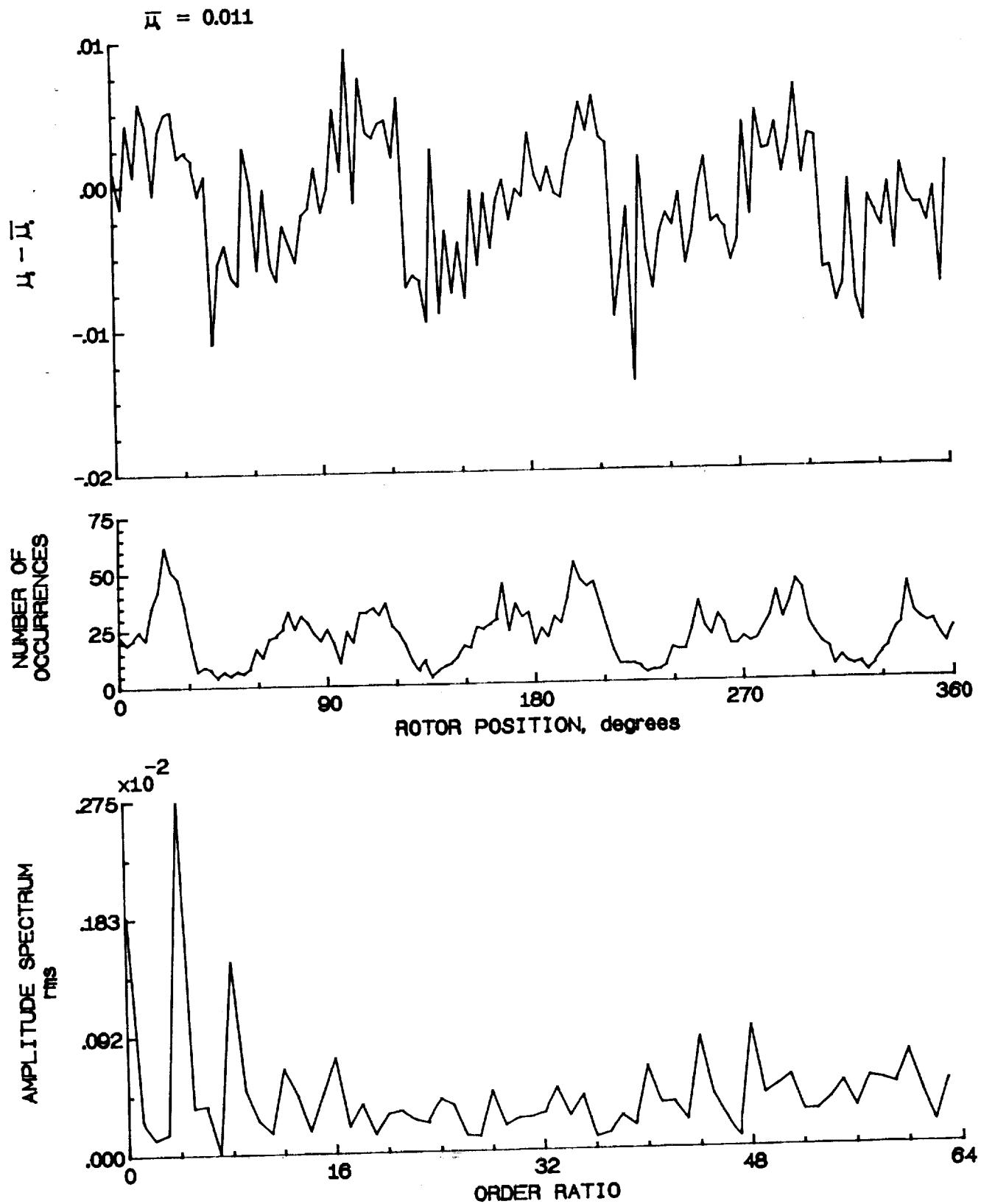


Figure 168.- Induced inflow velocity measured at
 300 degrees and r/R of 0.90.

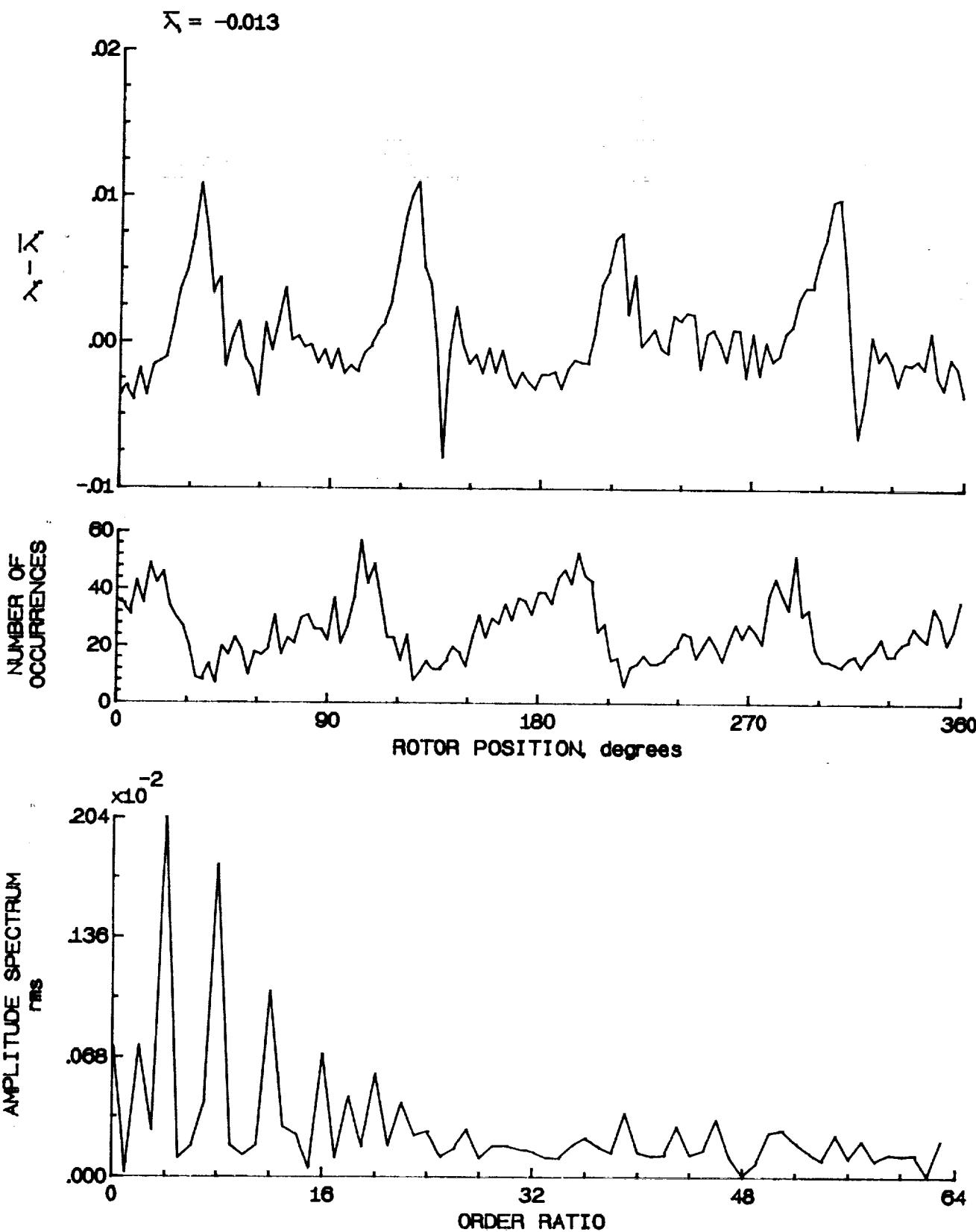


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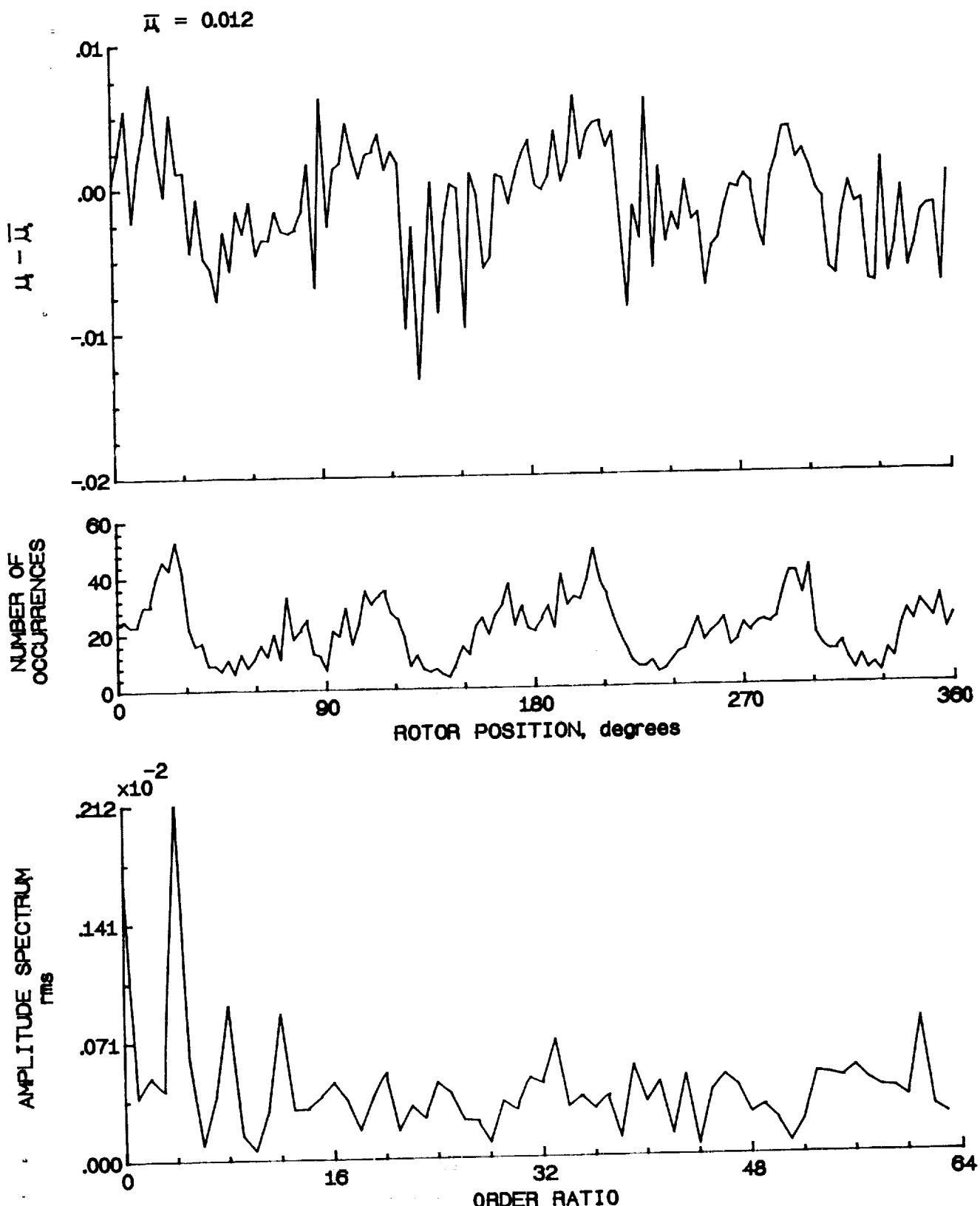


Figure 169.- Induced inflow velocity measured at 300 degrees and r/R of 0.94.

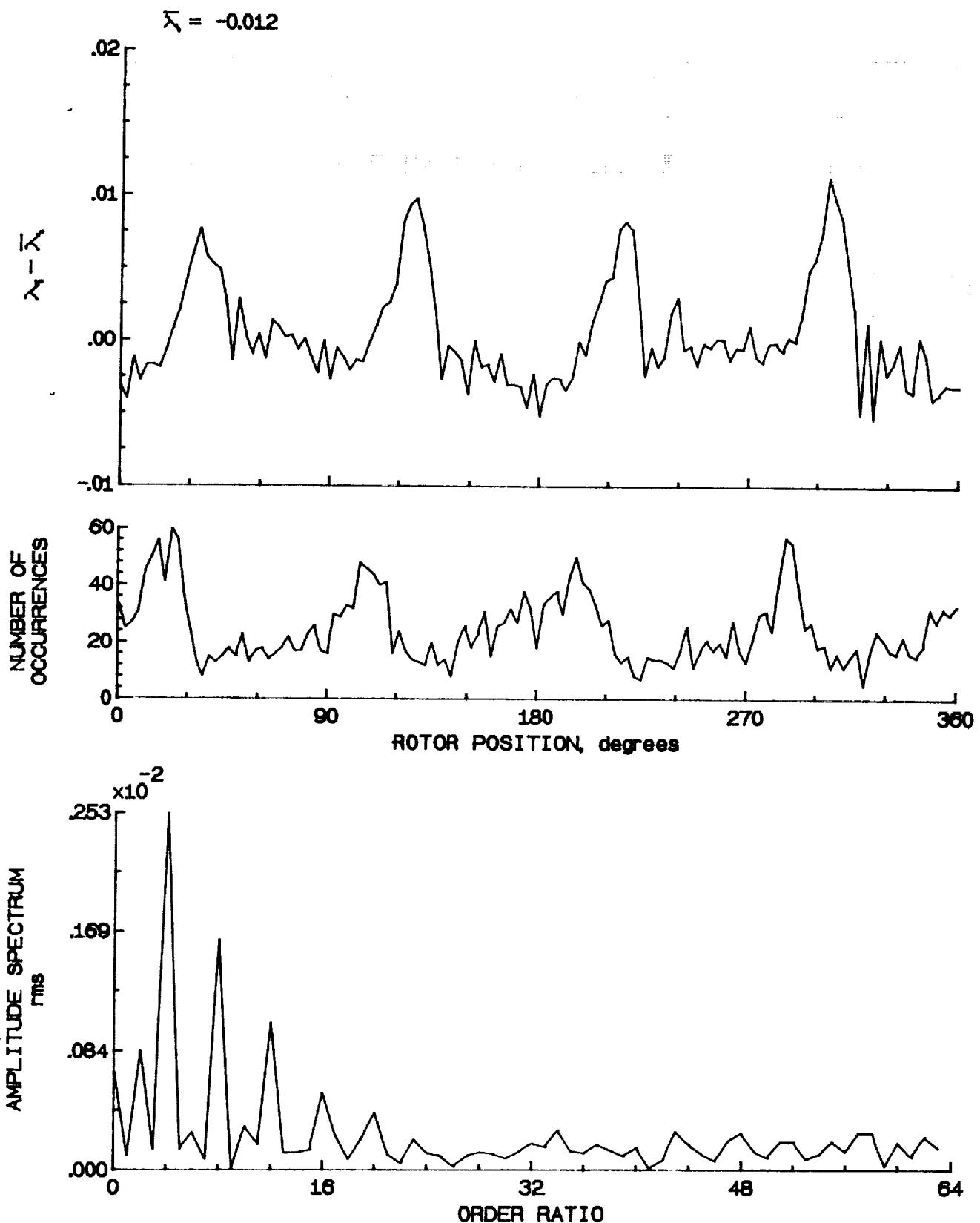


Figure 169.- Concluded.

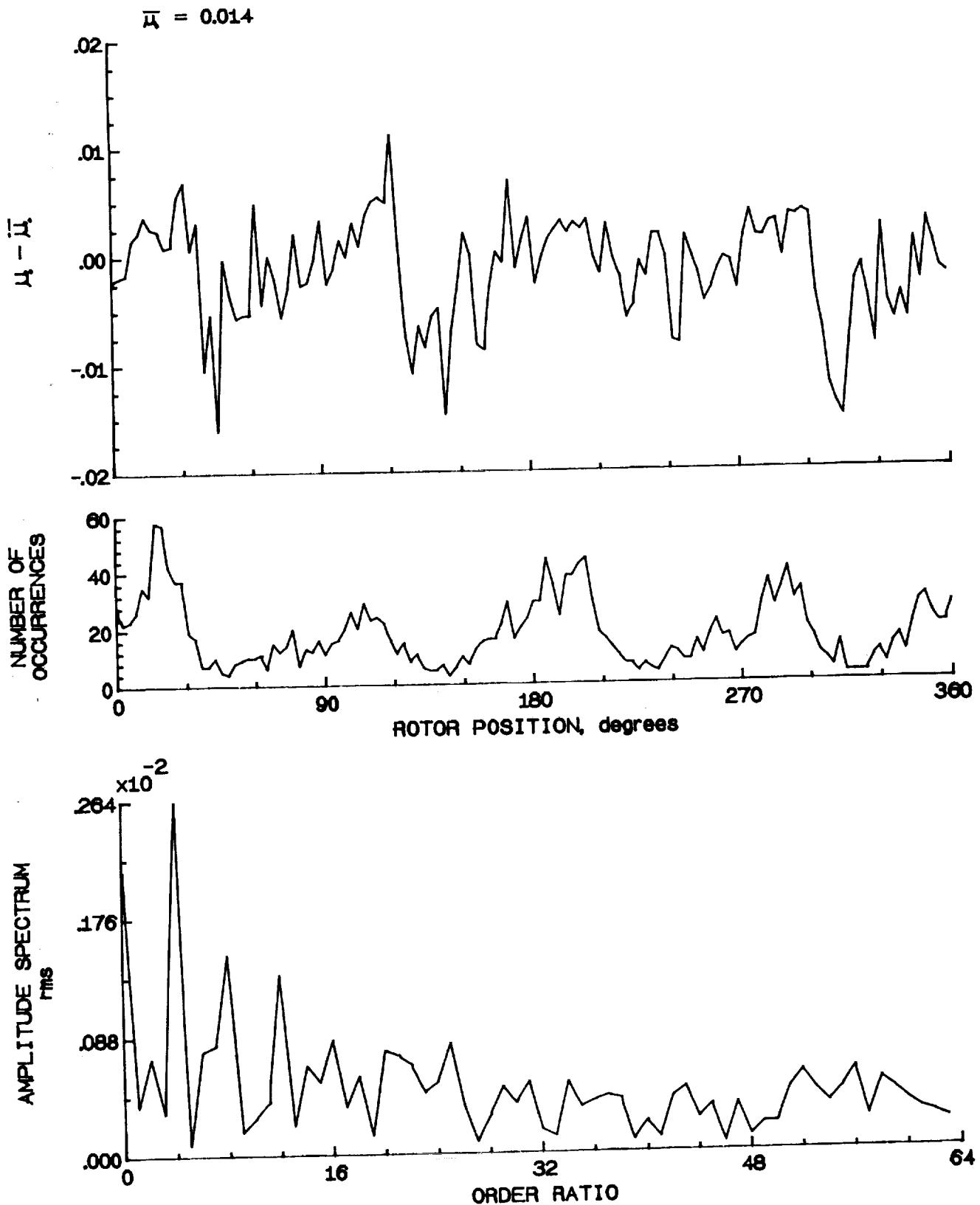


Figure 170.- Induced inflow velocity measured at 300 degrees and r/R of 0.96.

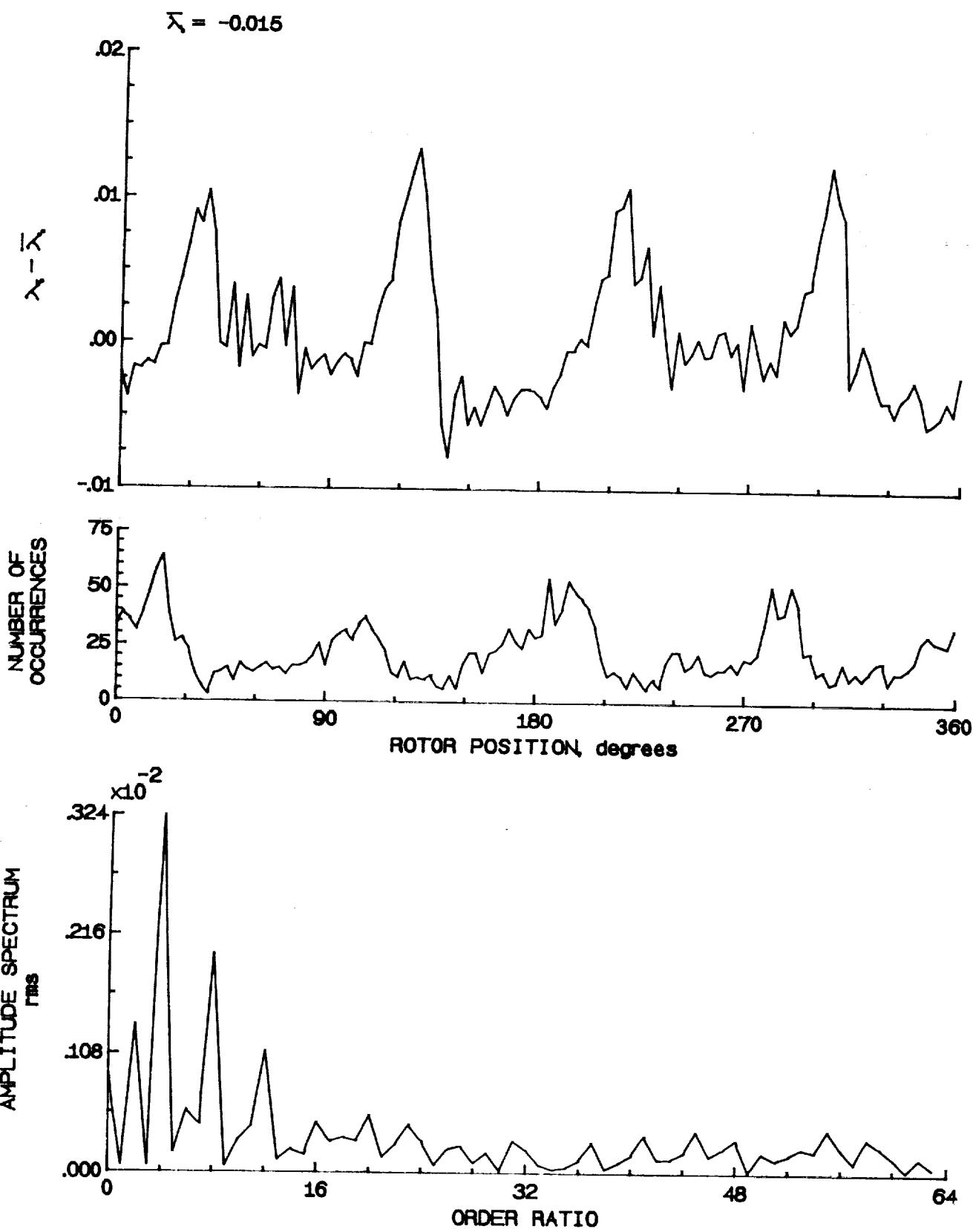


Figure 170.- Concluded.

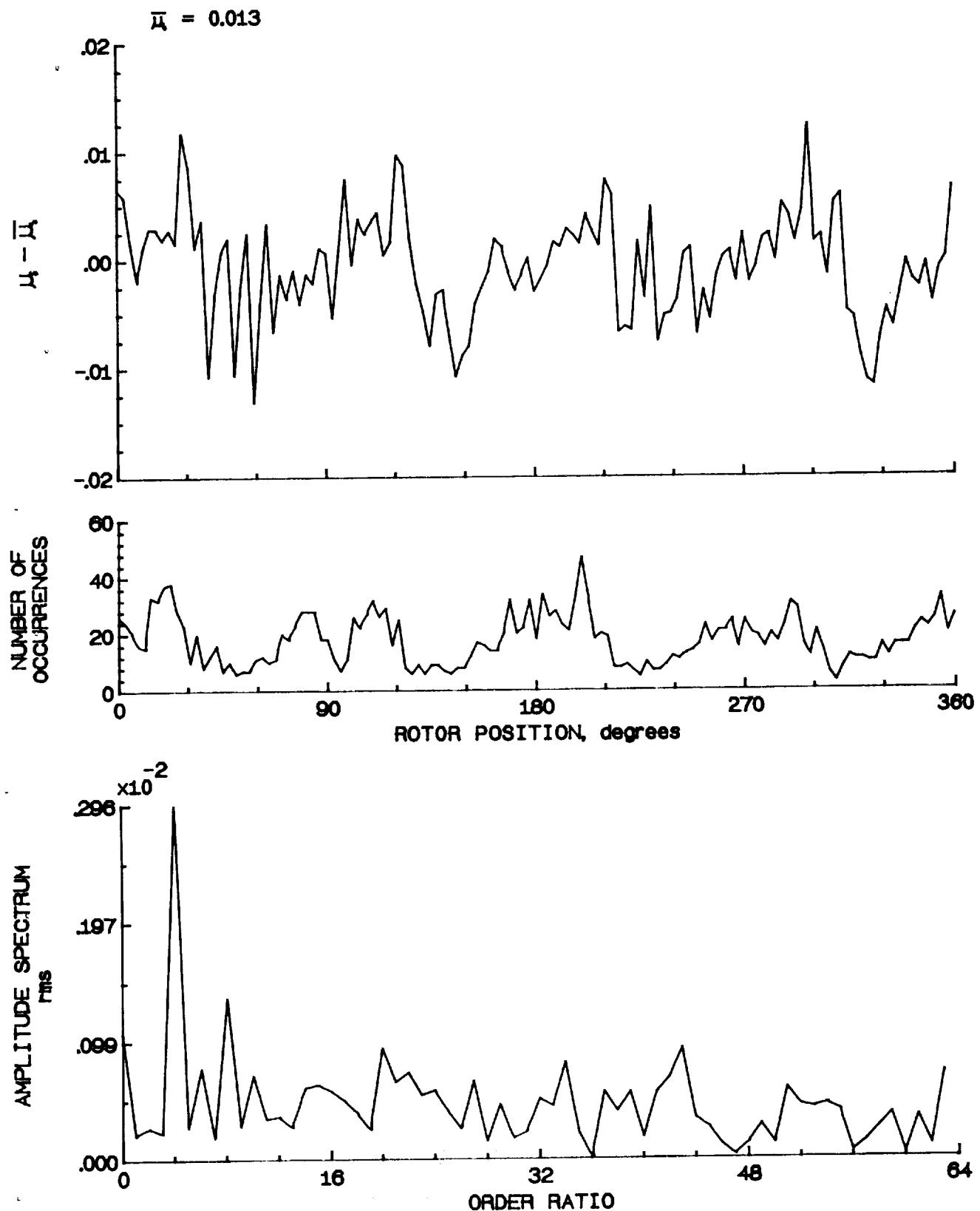


Figure 171.- Induced inflow velocity measured at 300 degrees and r/R of 1.00.

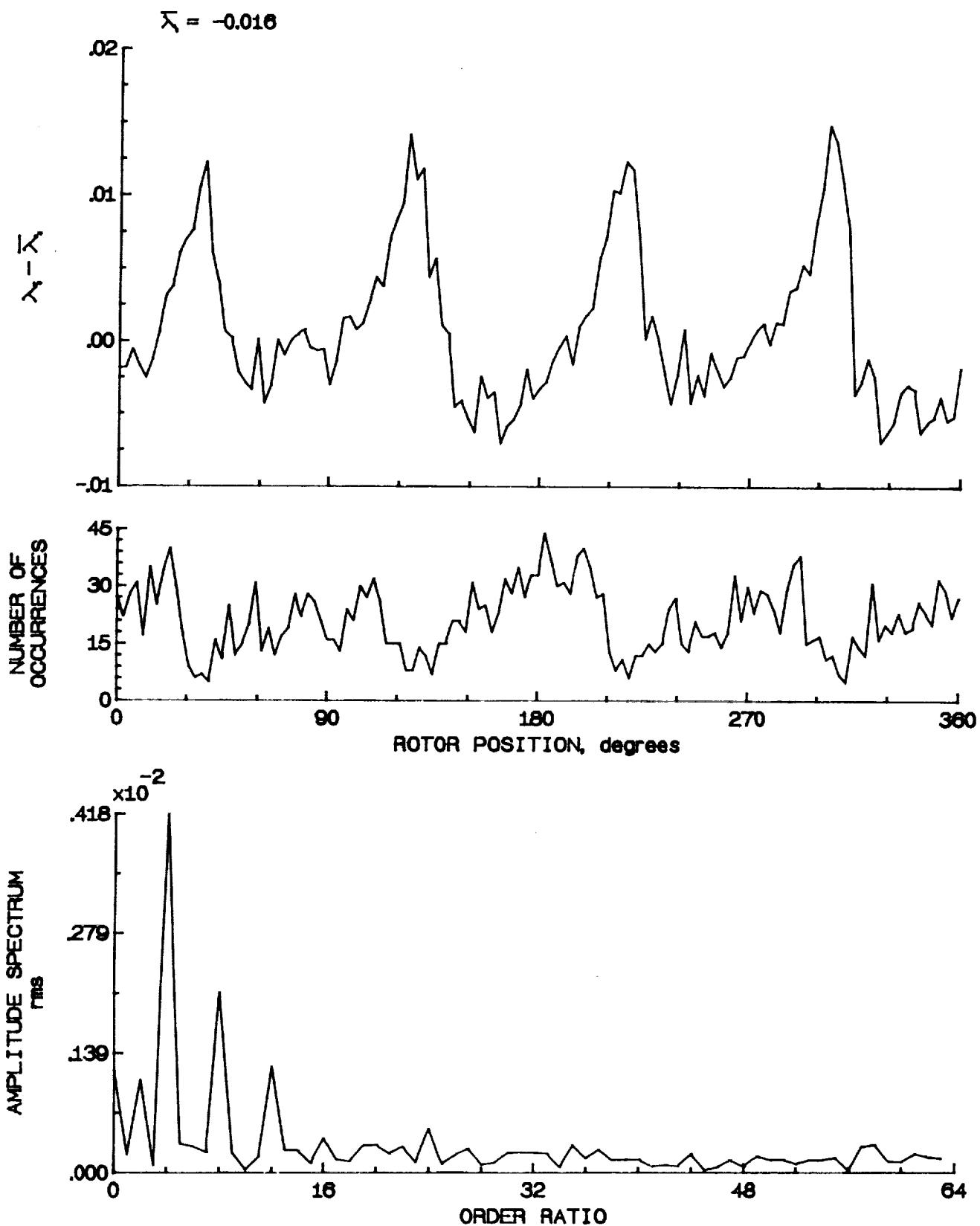


Figure 171.- Concluded.

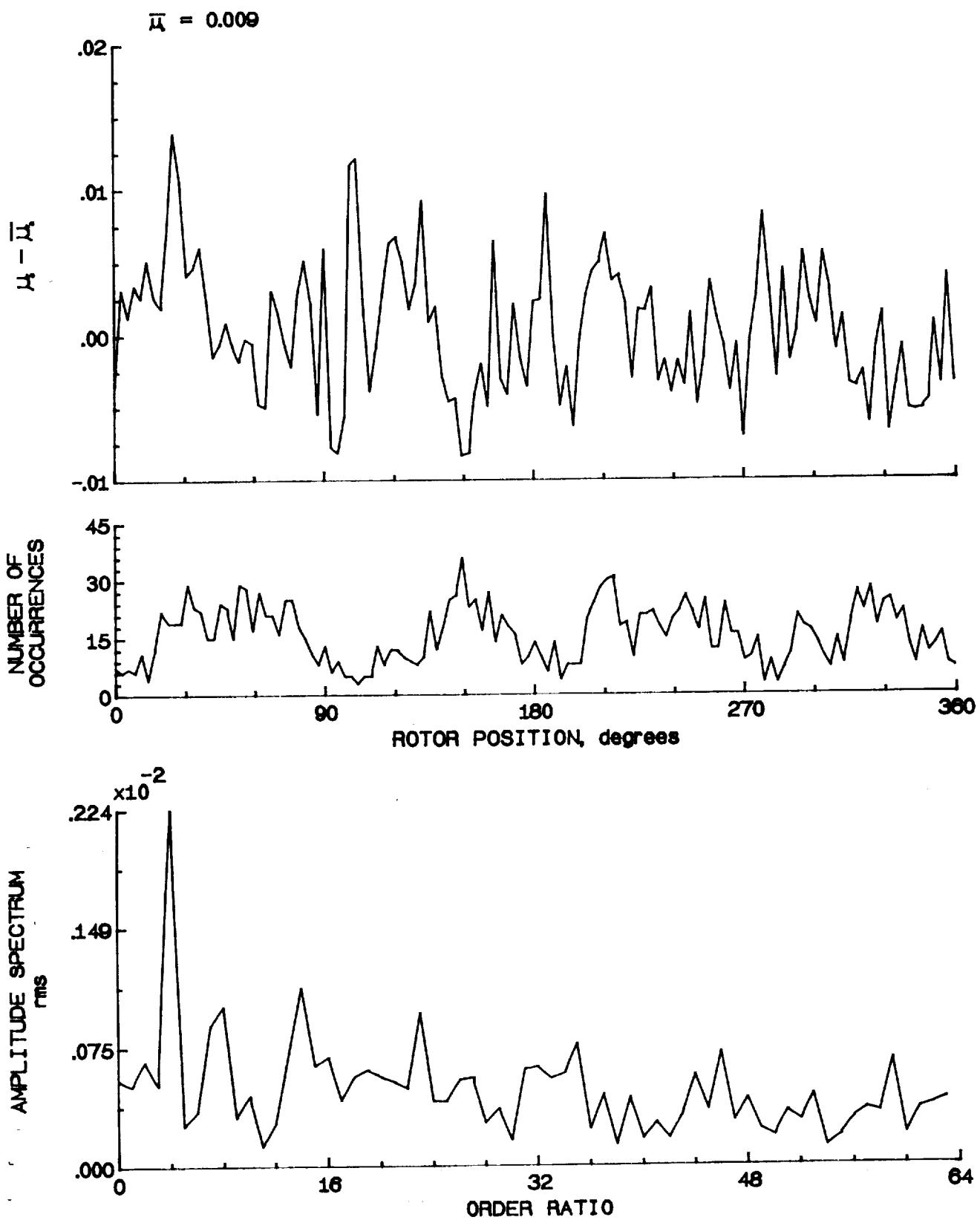


Figure 172.- Induced inflow velocity measured at 300 degrees and r/R of 1.10.

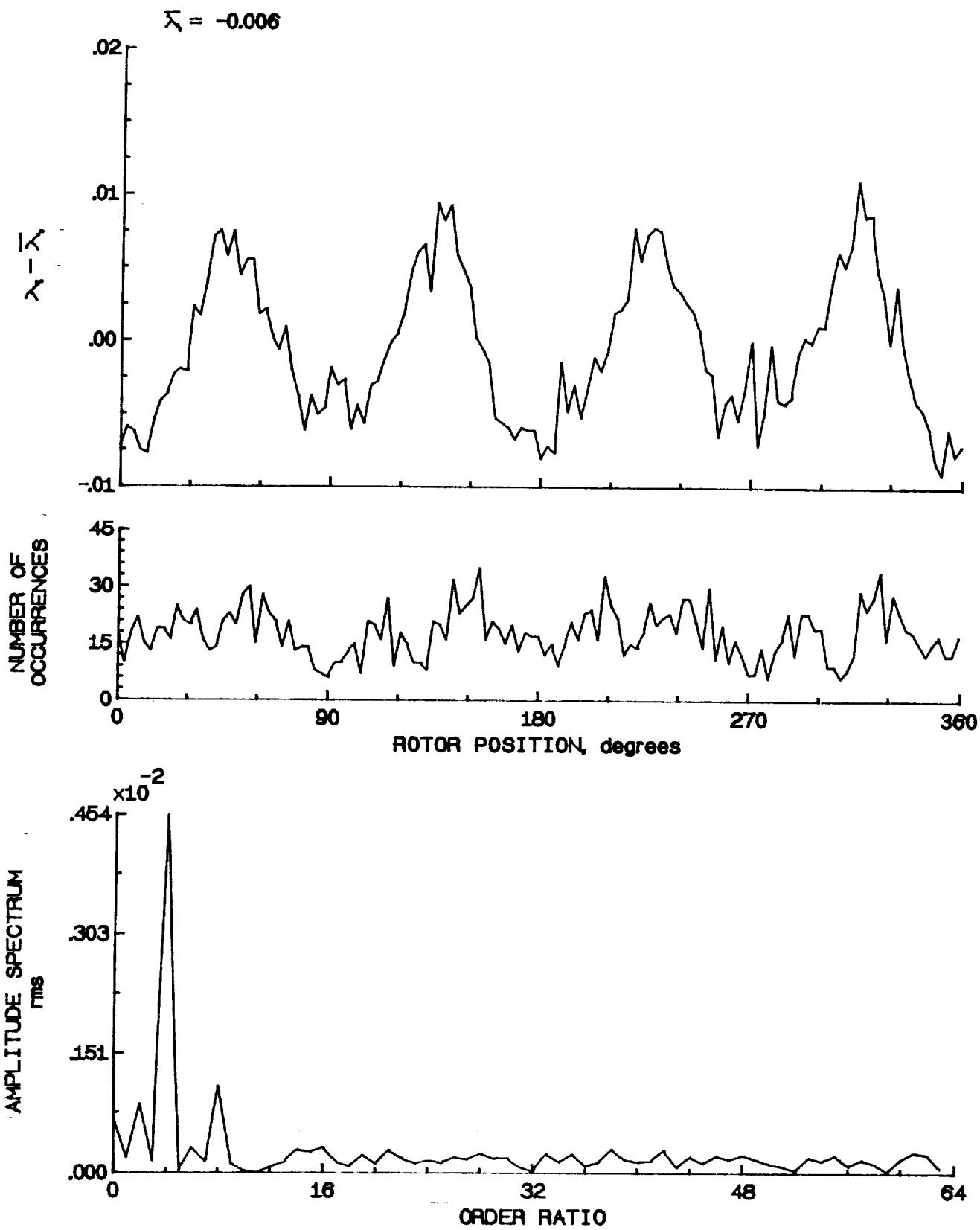


Figure 172.- Concluded.

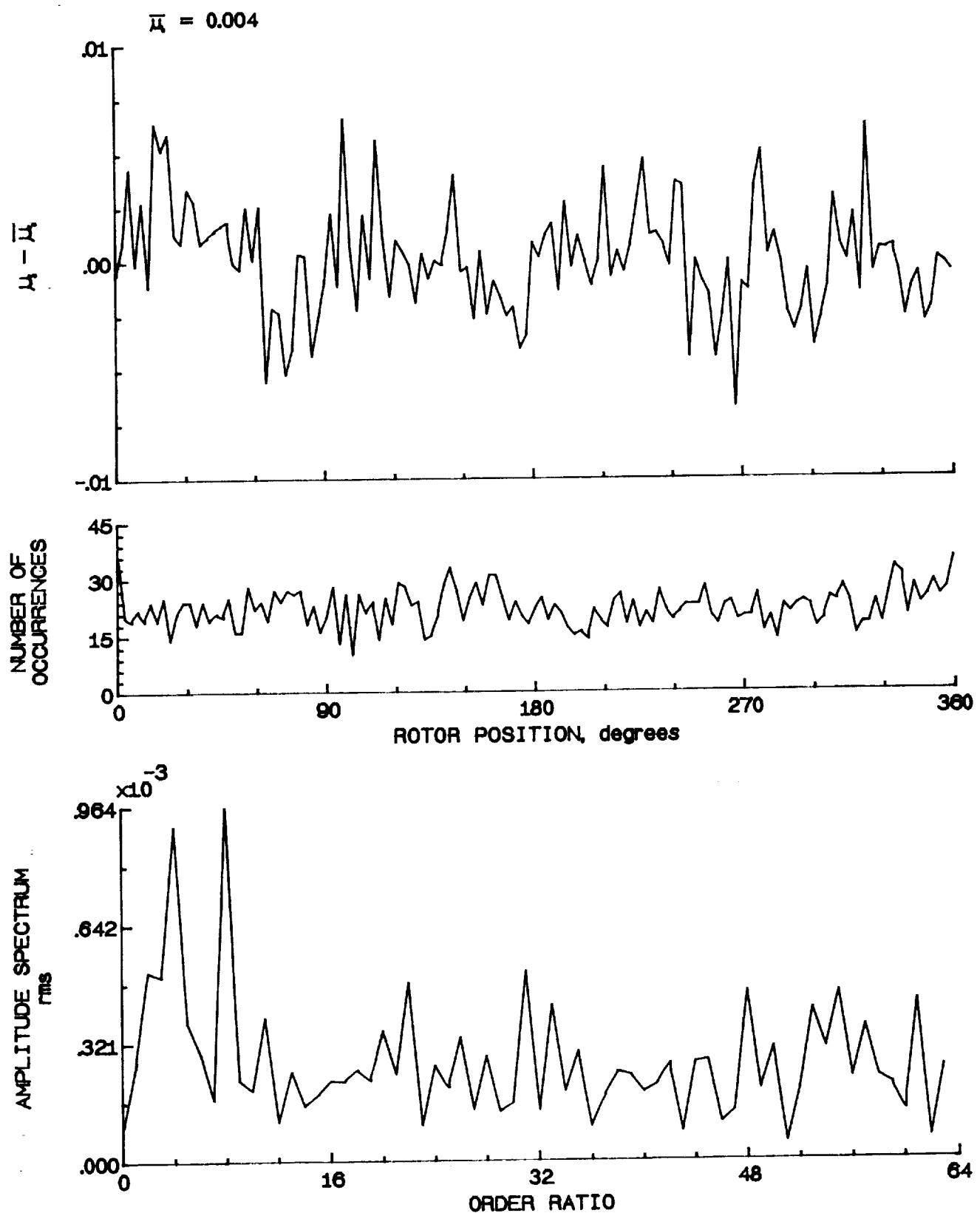


Figure 173.- Induced inflow velocity measured at 330 degrees and r/R of 0.20.

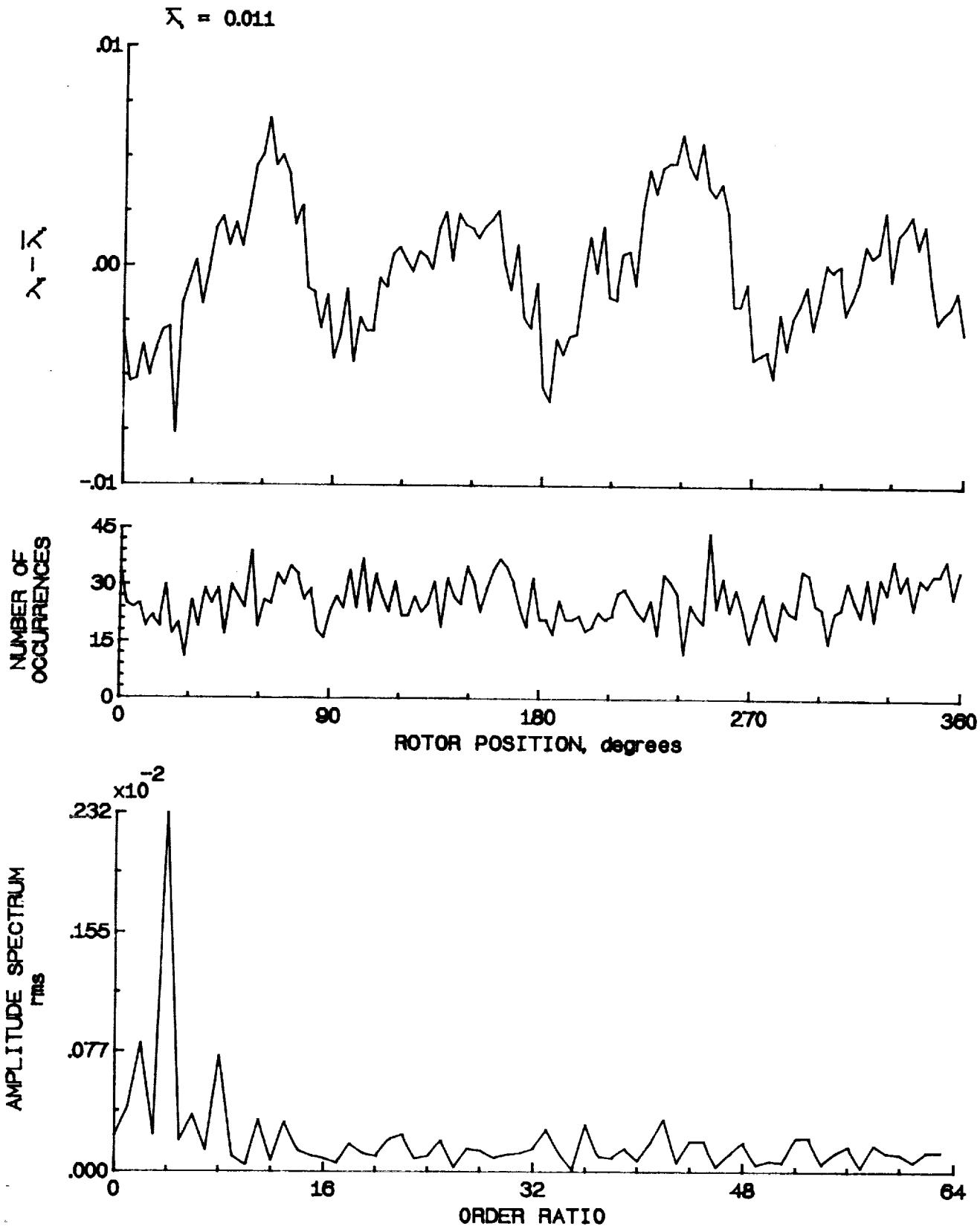


Figure 173.- Concluded.

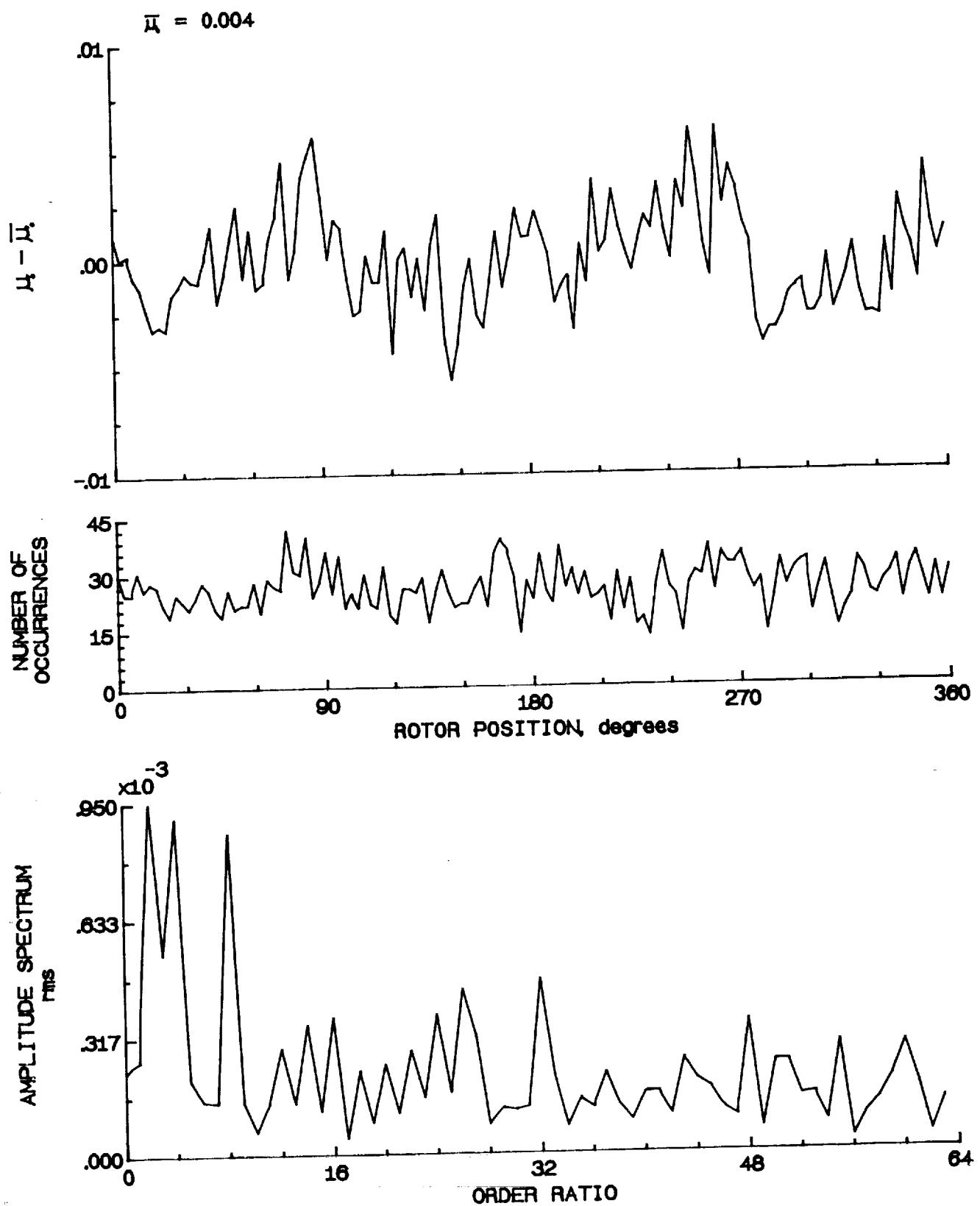


Figure 174.- Induced inflow velocity measured at 330 degrees and r/R of 0.32.

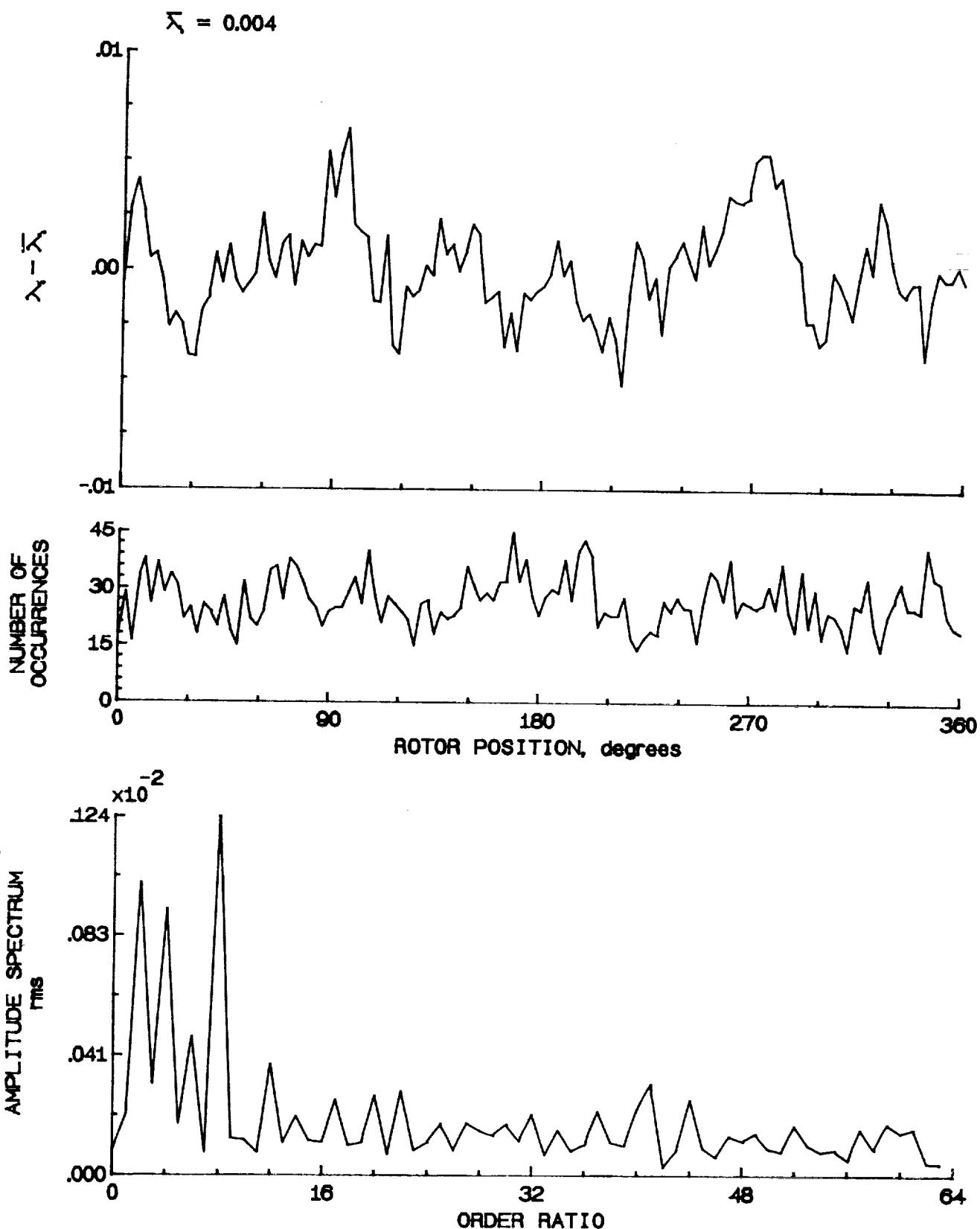


Figure 174.- Concluded.

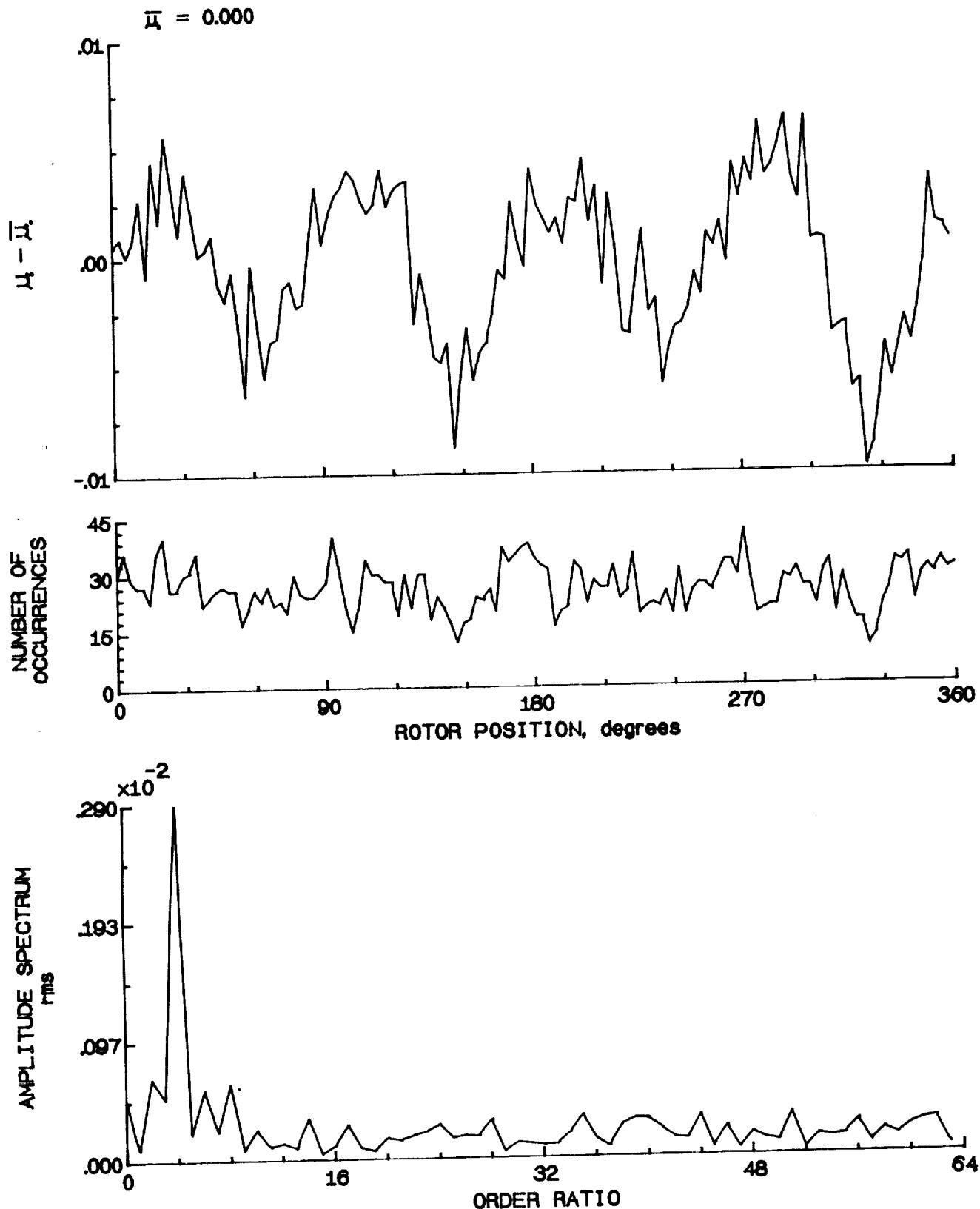


Figure 175.- Induced inflow velocity measured at 330 degrees and r/R of 0.50.

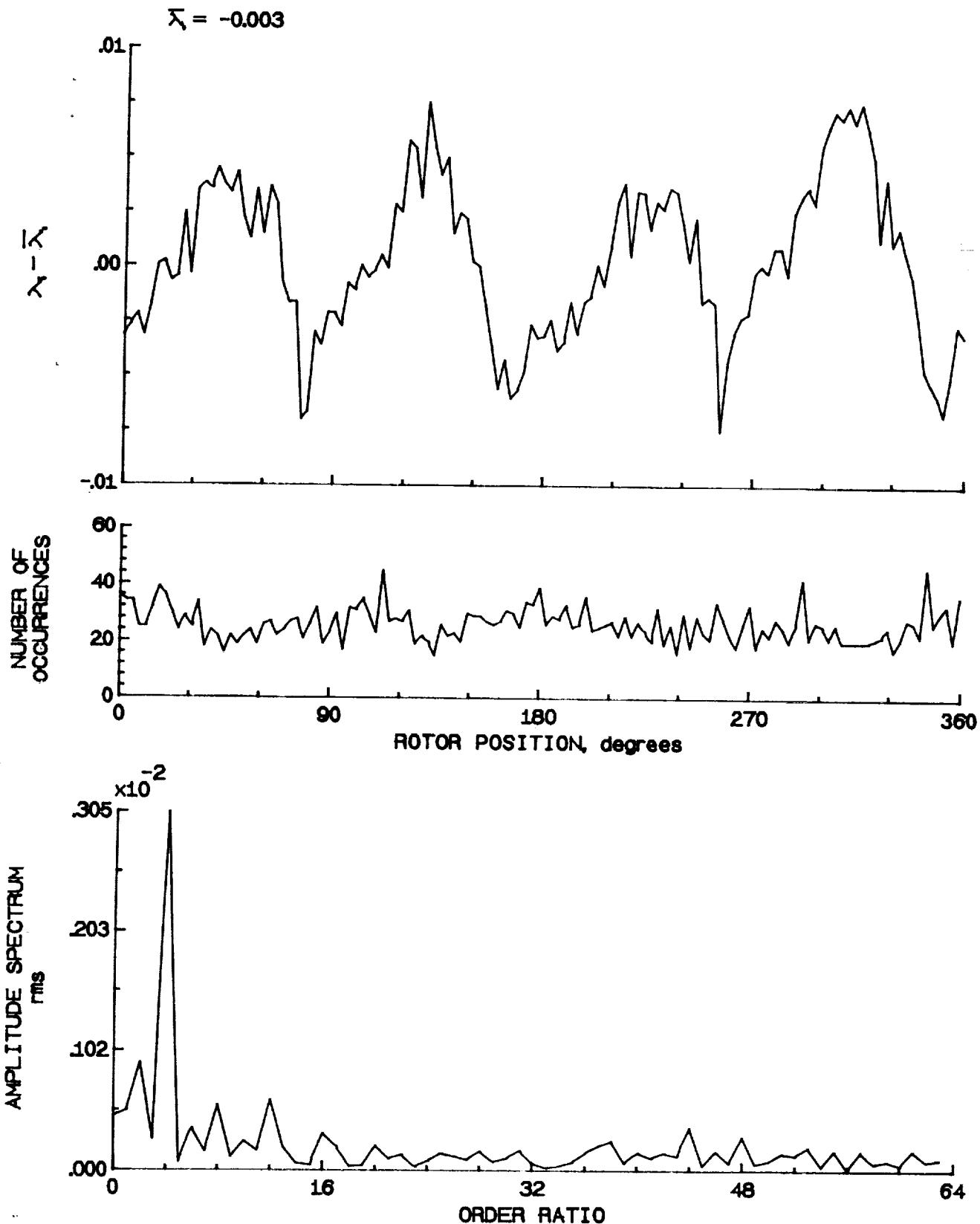


Figure 175.- Concluded.

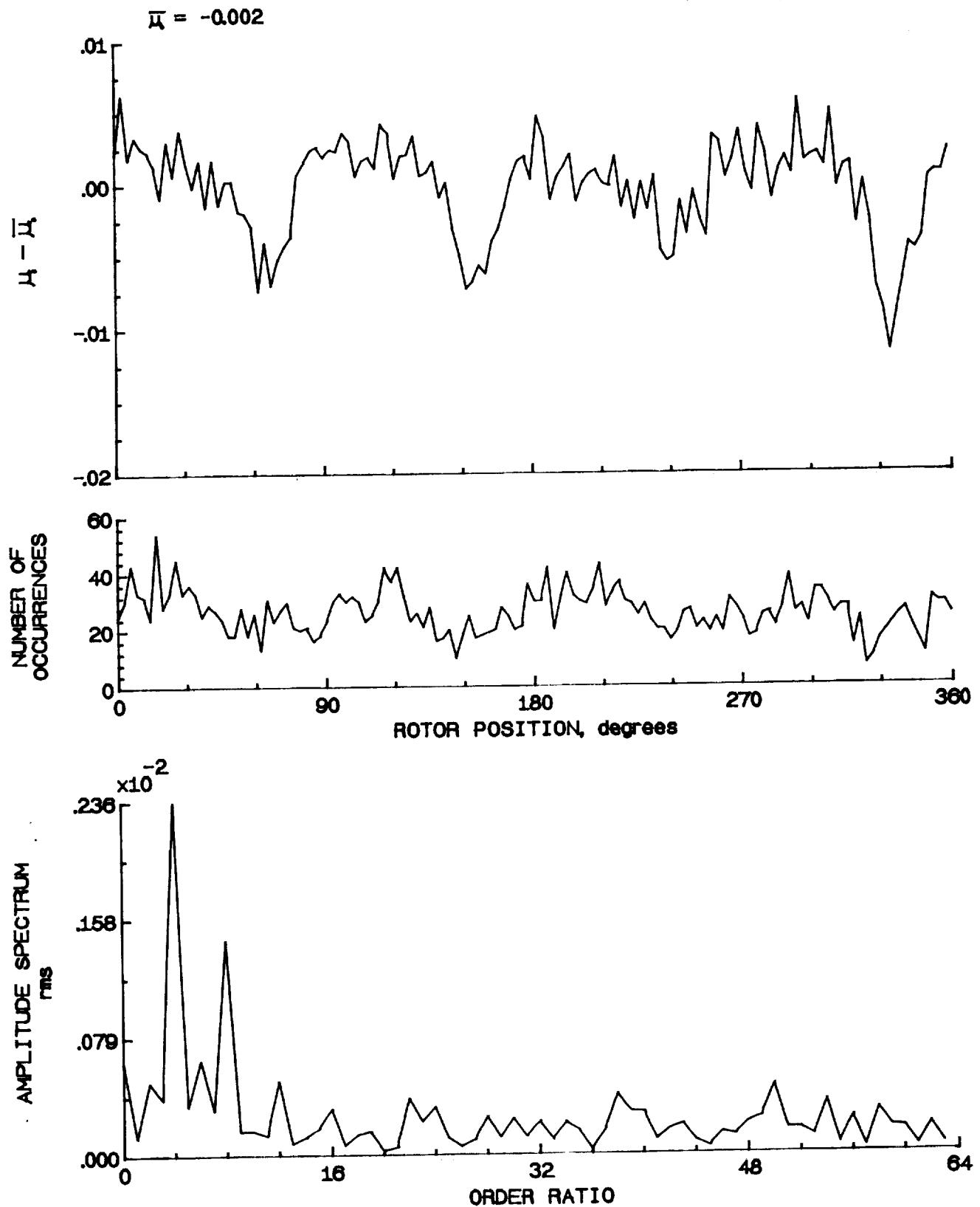


Figure 176.- Induced inflow velocity measured at 330 degrees and r/R of 0.58.

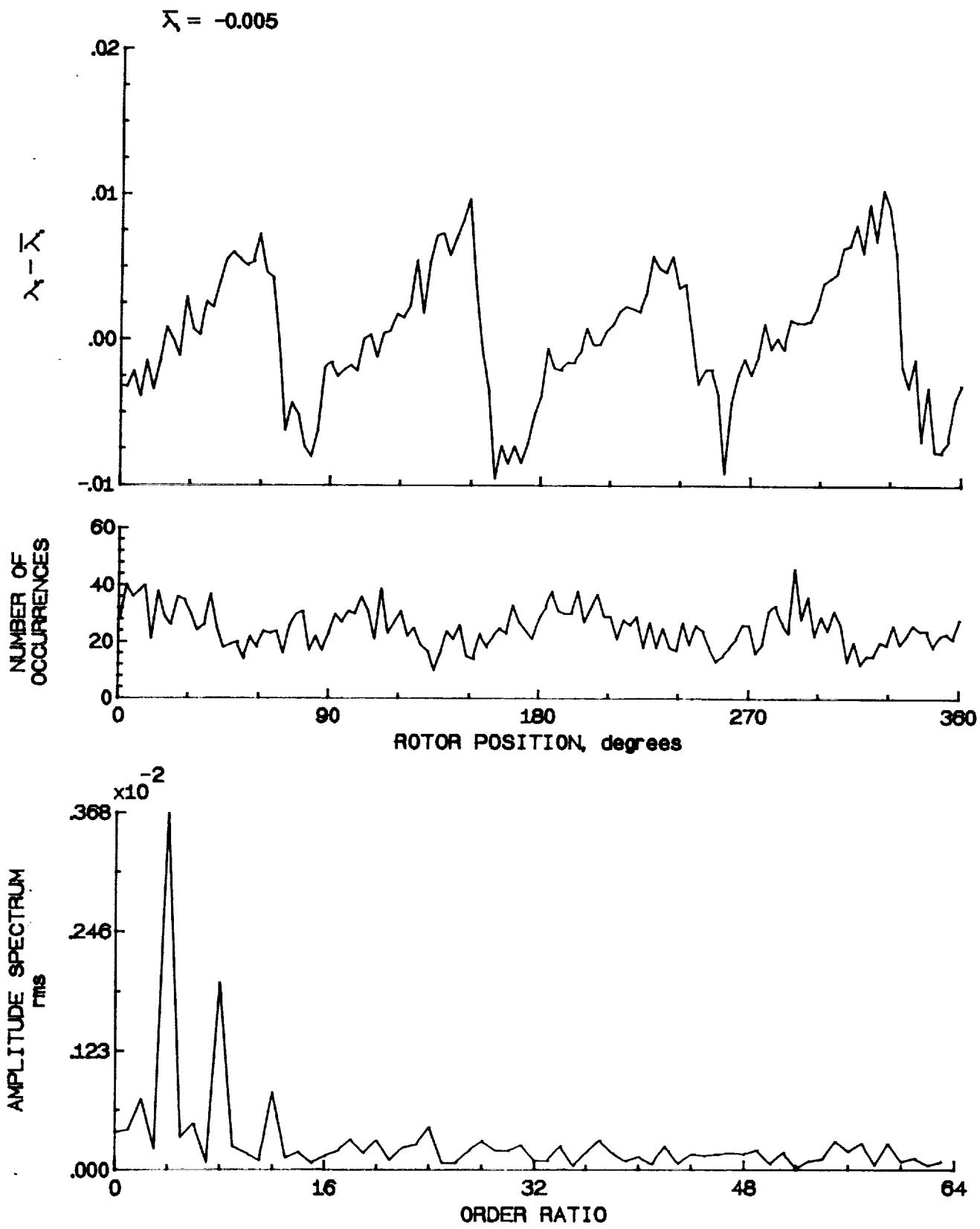


Figure 176.- Concluded.

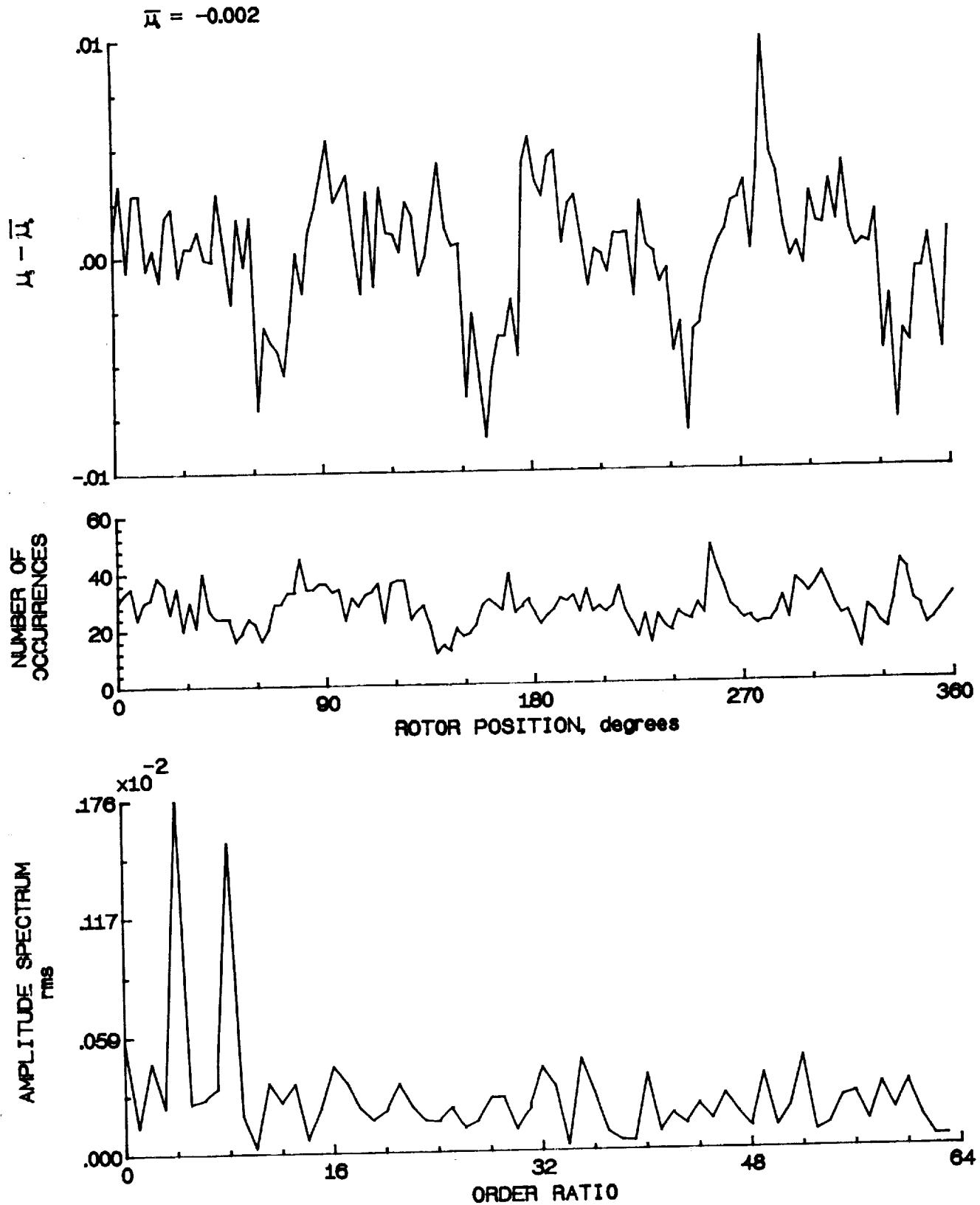


Figure 177.- Induced inflow velocity measured at 330 degrees and r/R of 0.69.

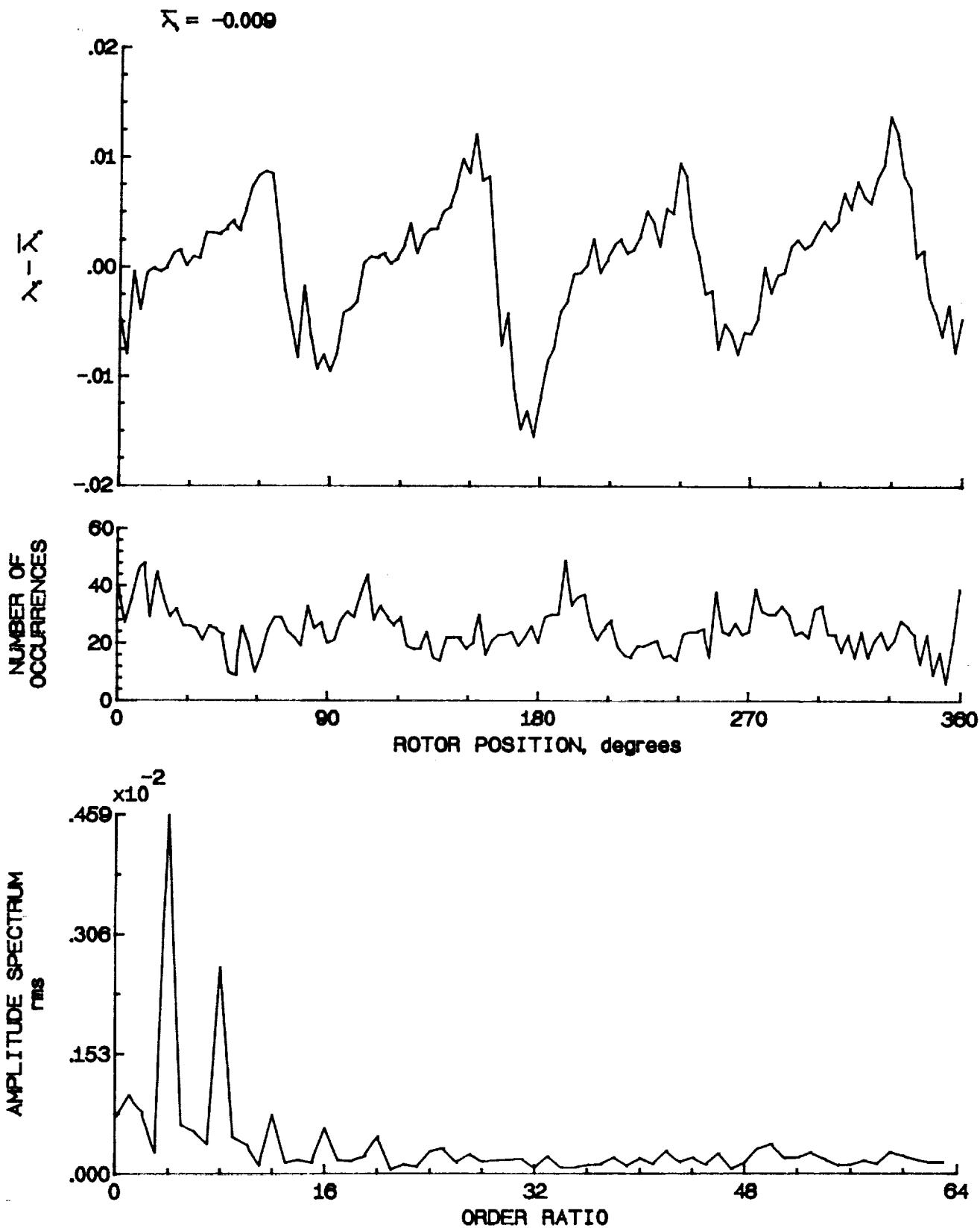


Figure 177.- Concluded.

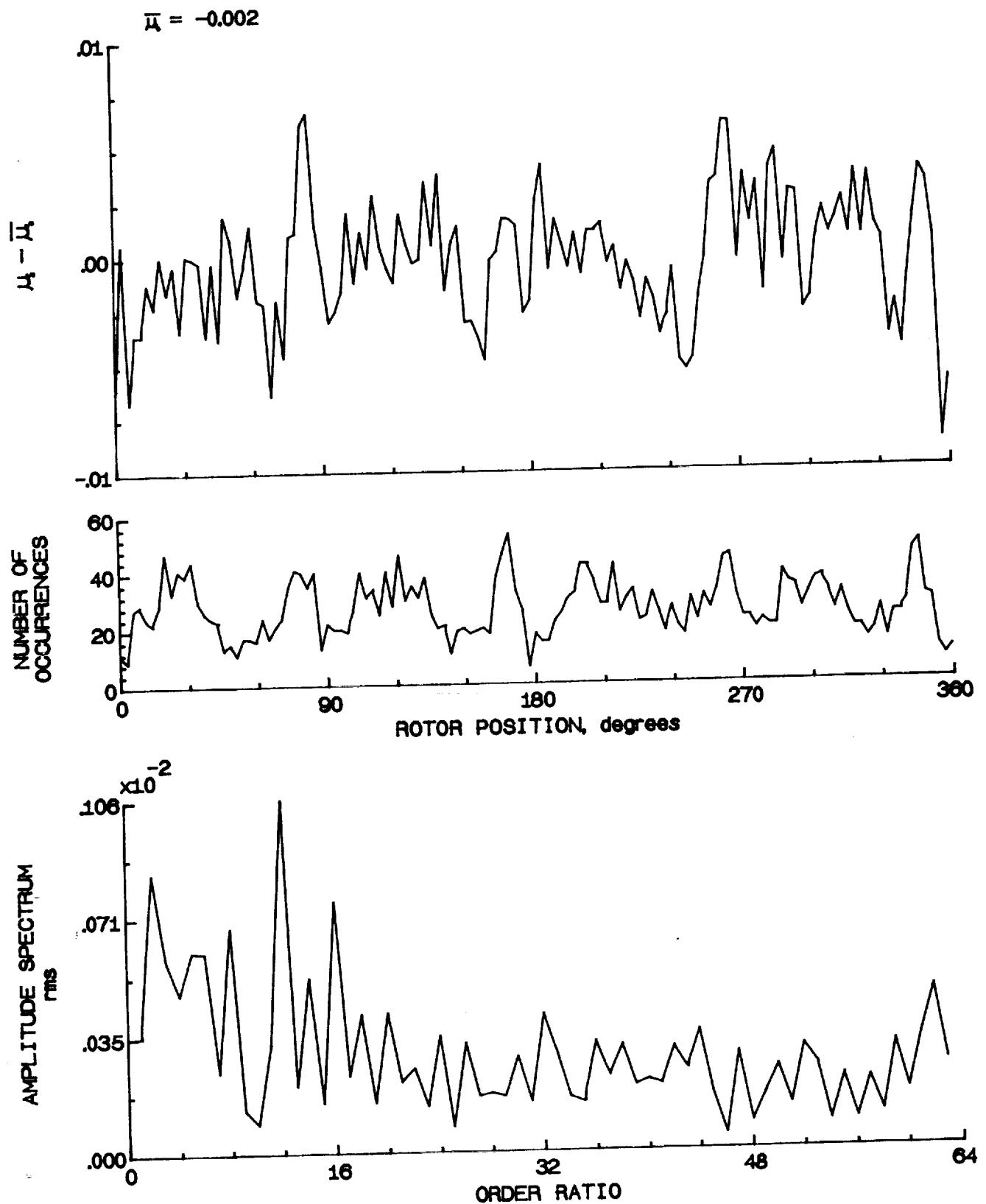


Figure 178.- Induced inflow velocity measured at 330 degrees and r/R of 0.73.

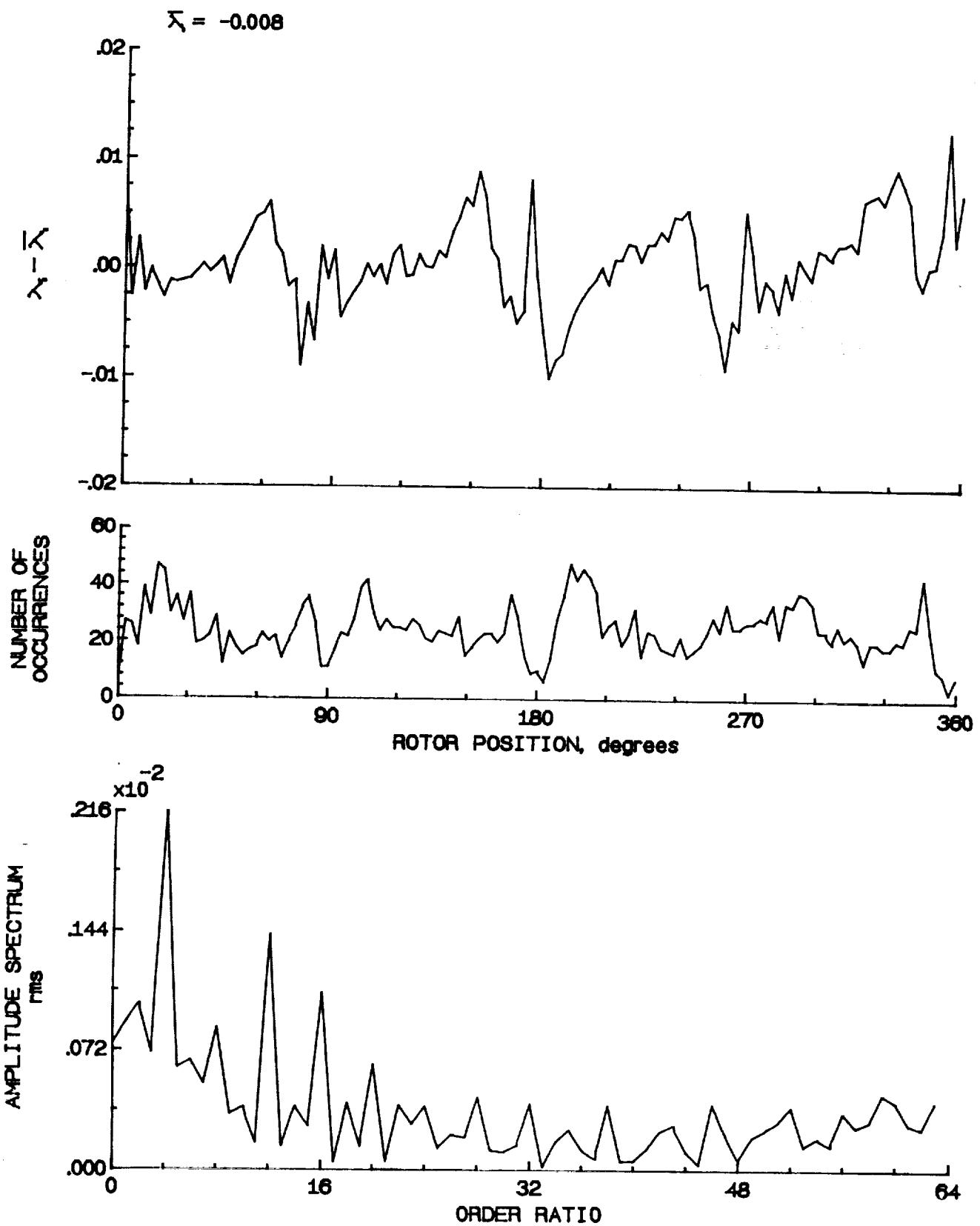


Figure 178.- Concluded.

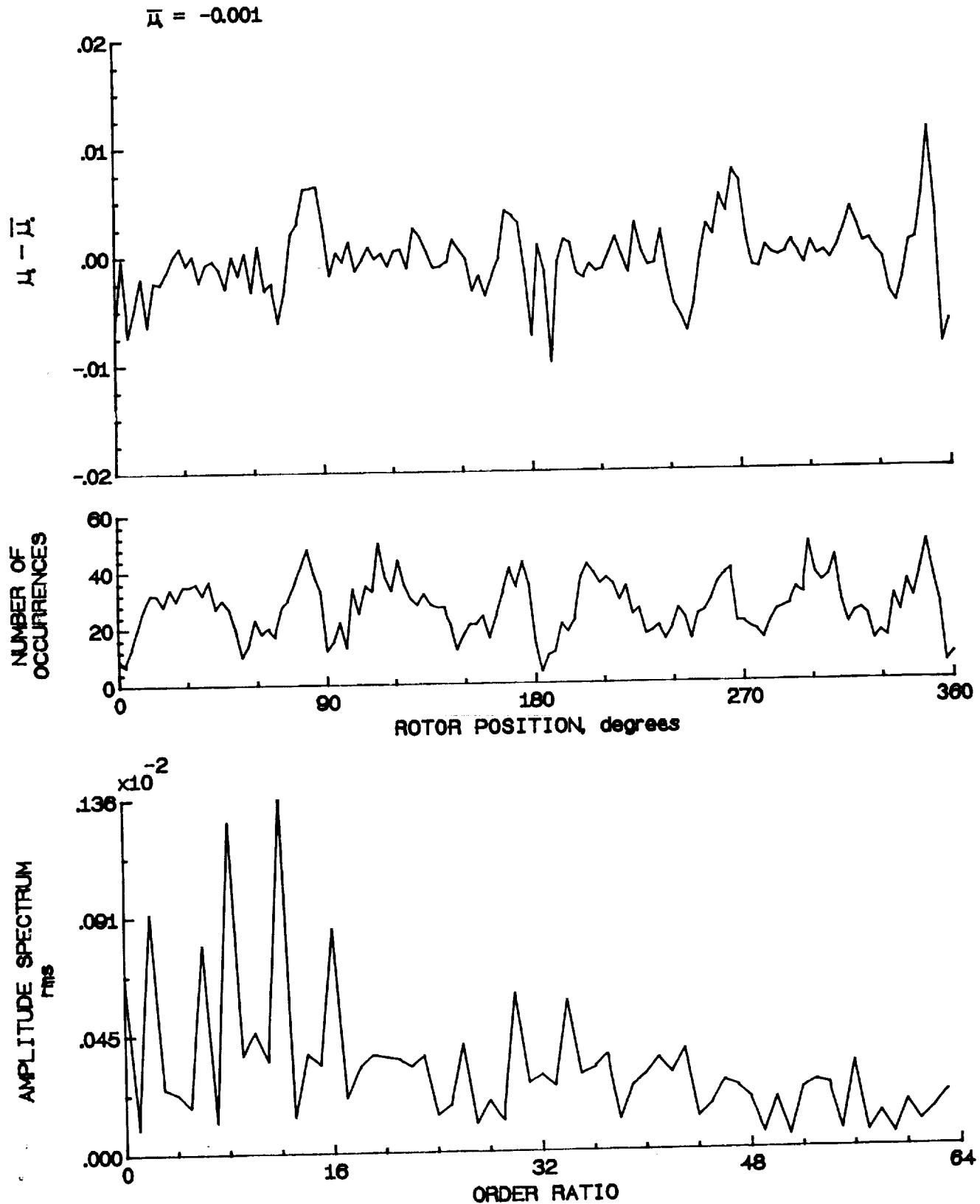


Figure 179.- Induced inflow velocity measured at 330 degrees and r/R of 0.75.

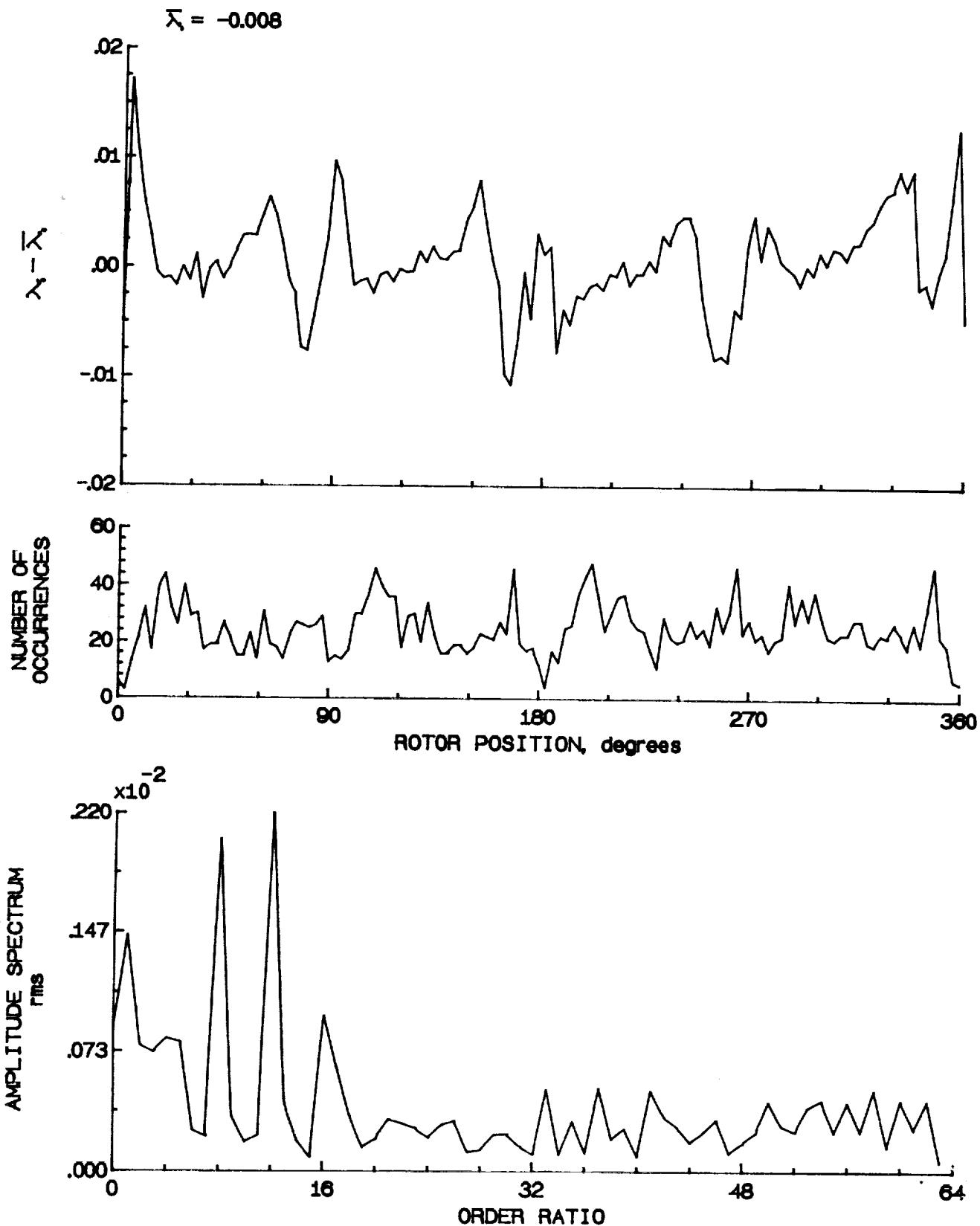


Figure 179.- Concluded.

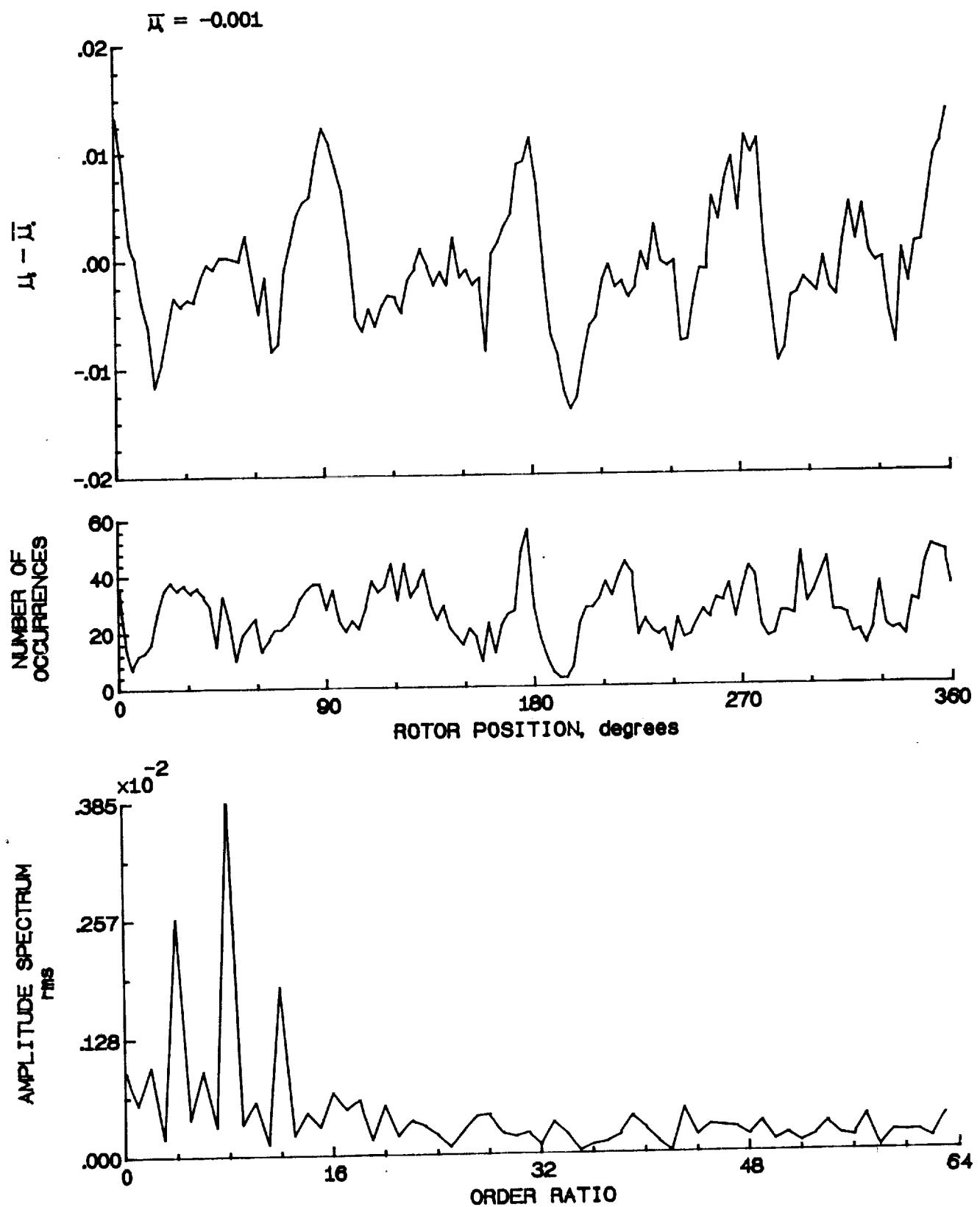


Figure 180.- Induced inflow velocity measured at 330 degrees and r/R of 0.81.

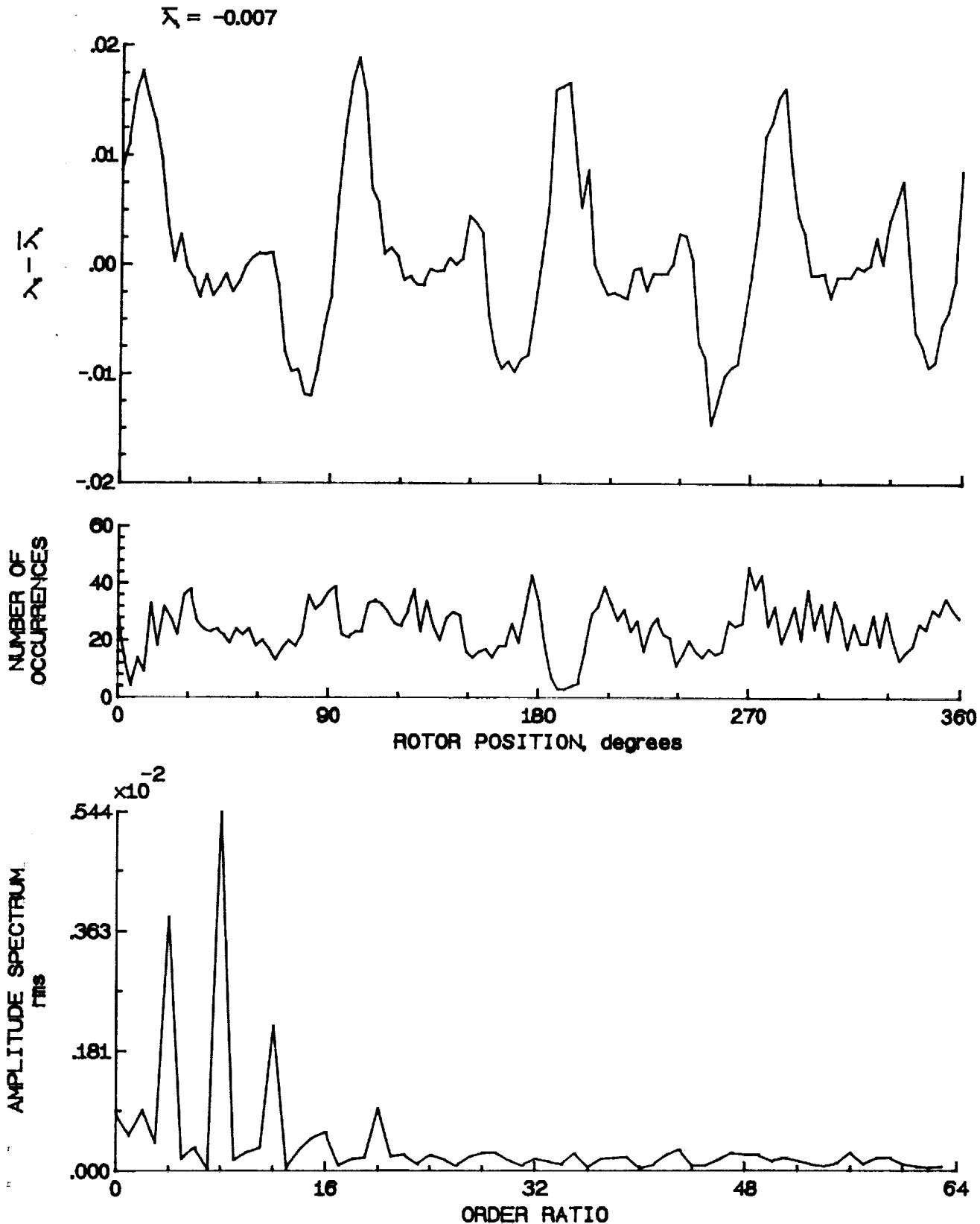


Figure 180.- Concluded.

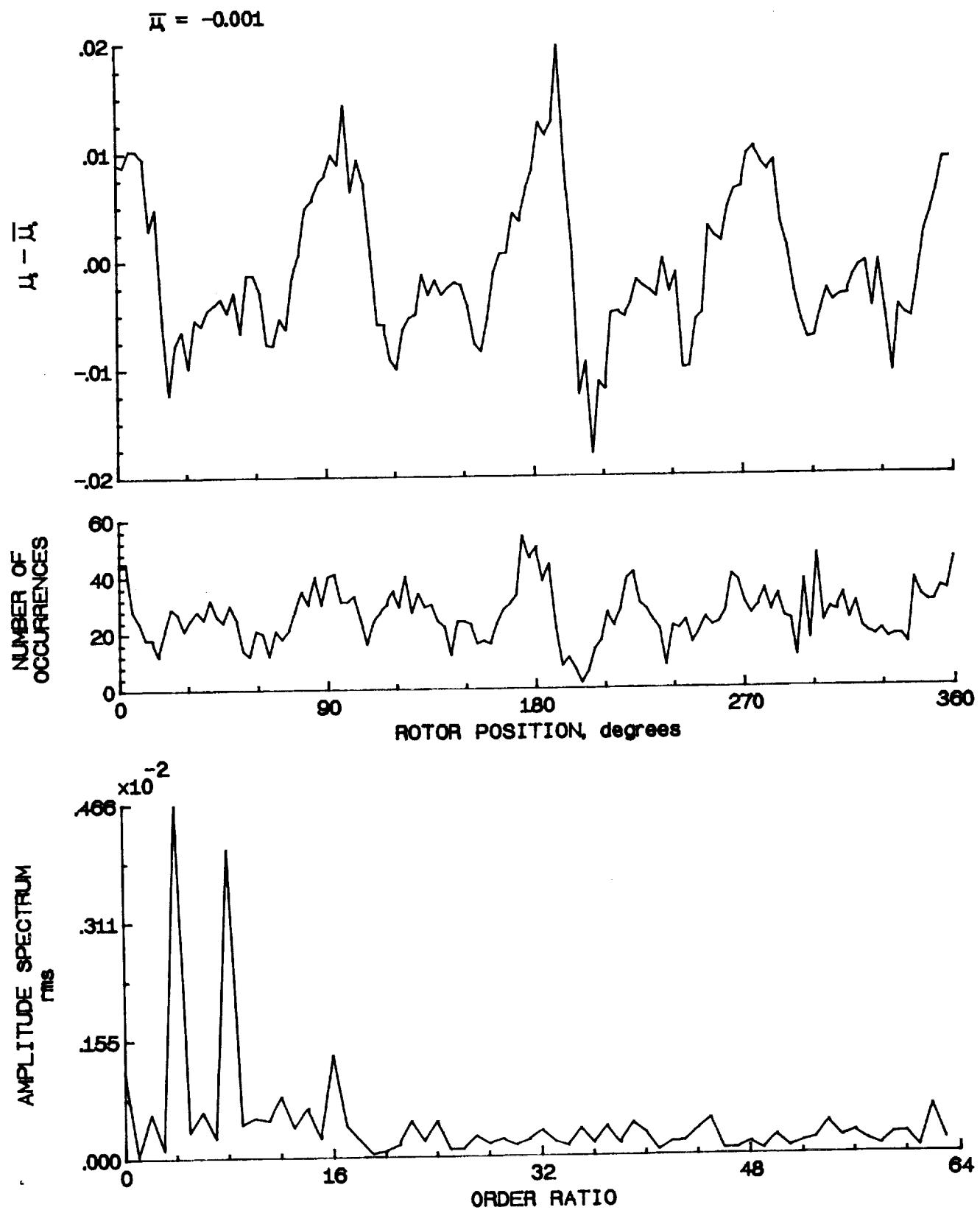


Figure 181.- Induced inflow velocity measured at 330 degrees and r/R of 0.86.

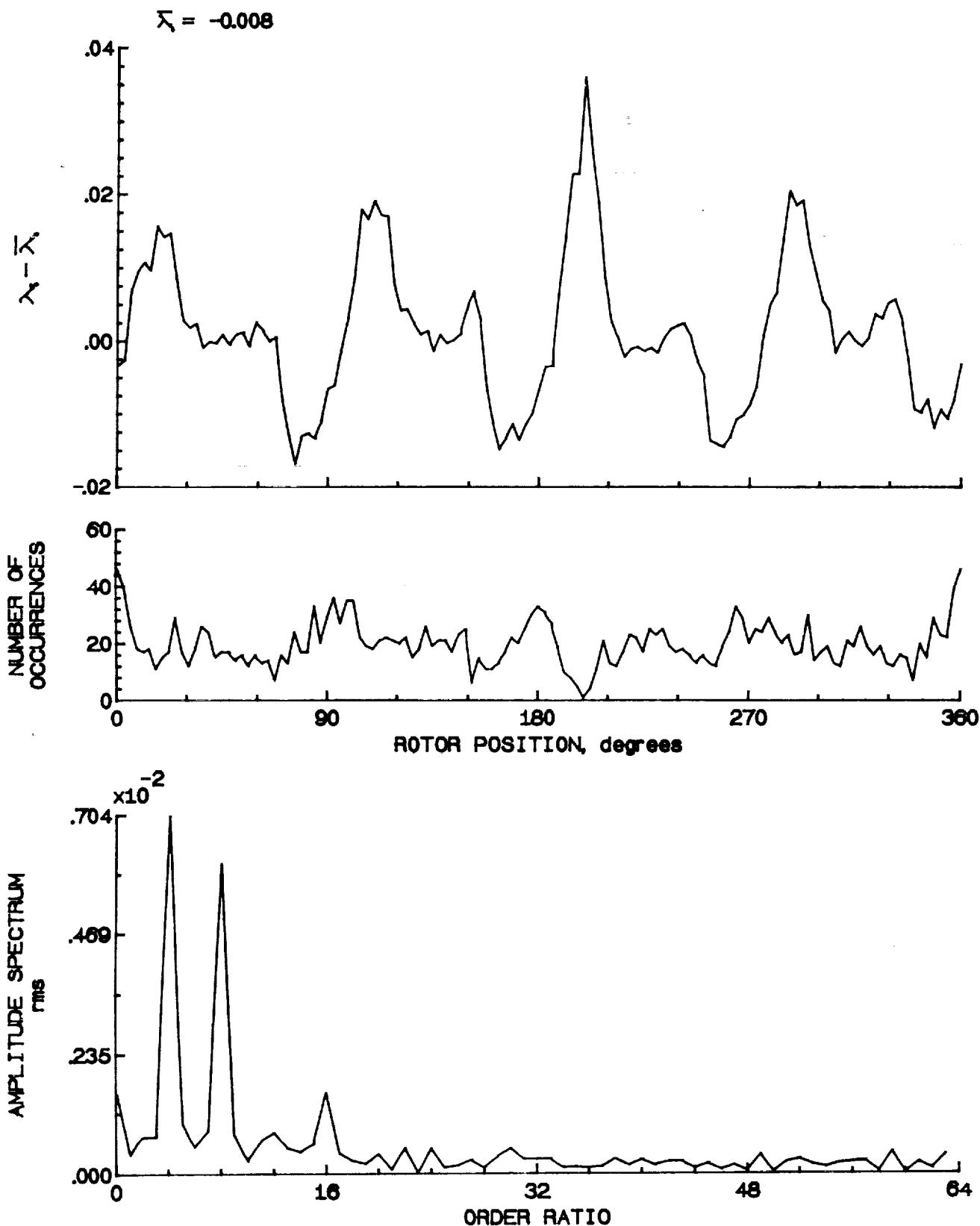


Figure 181- Concluded

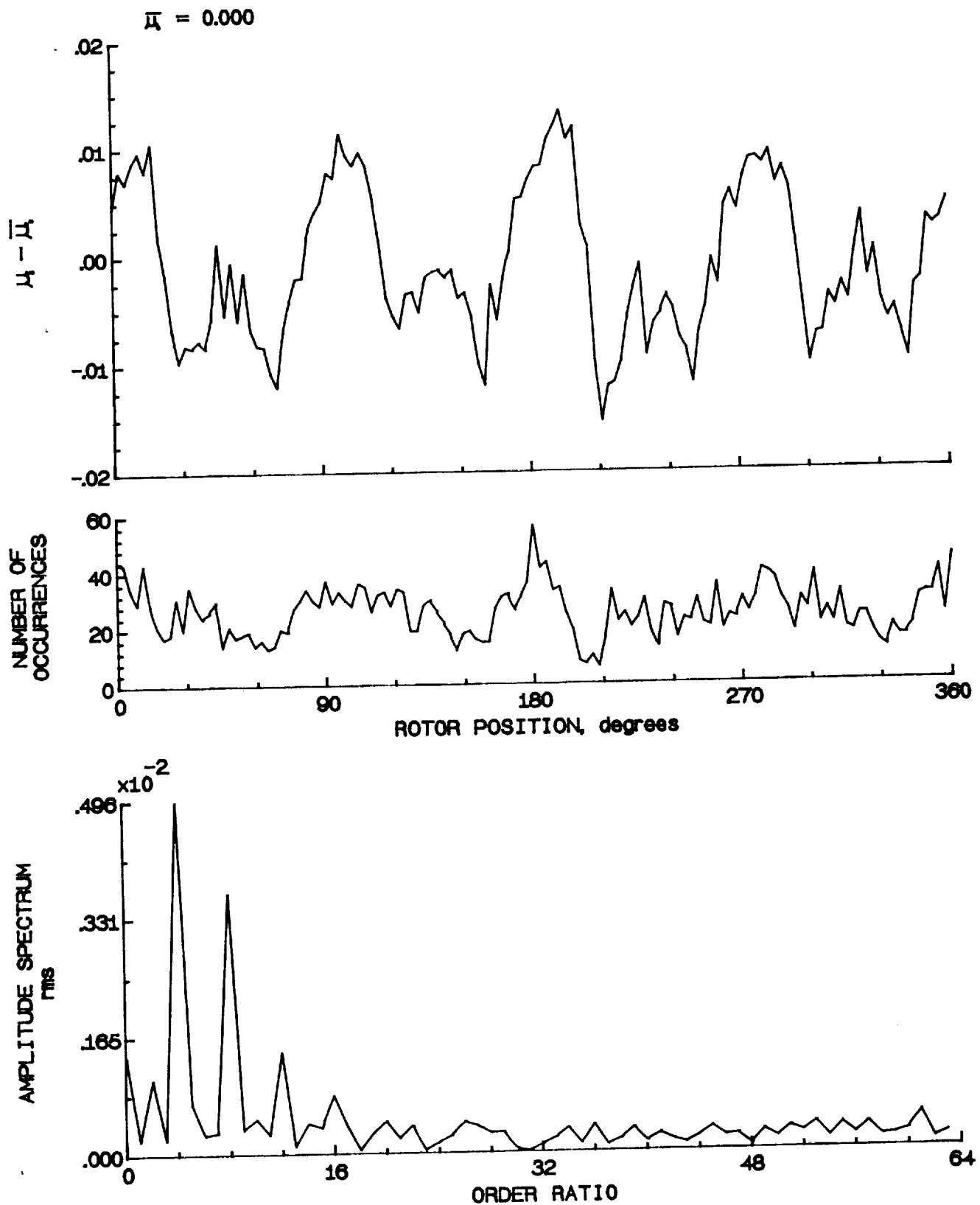


Figure 182.- Induced inflow velocity measured at 330 degrees and r/R of 0.90.

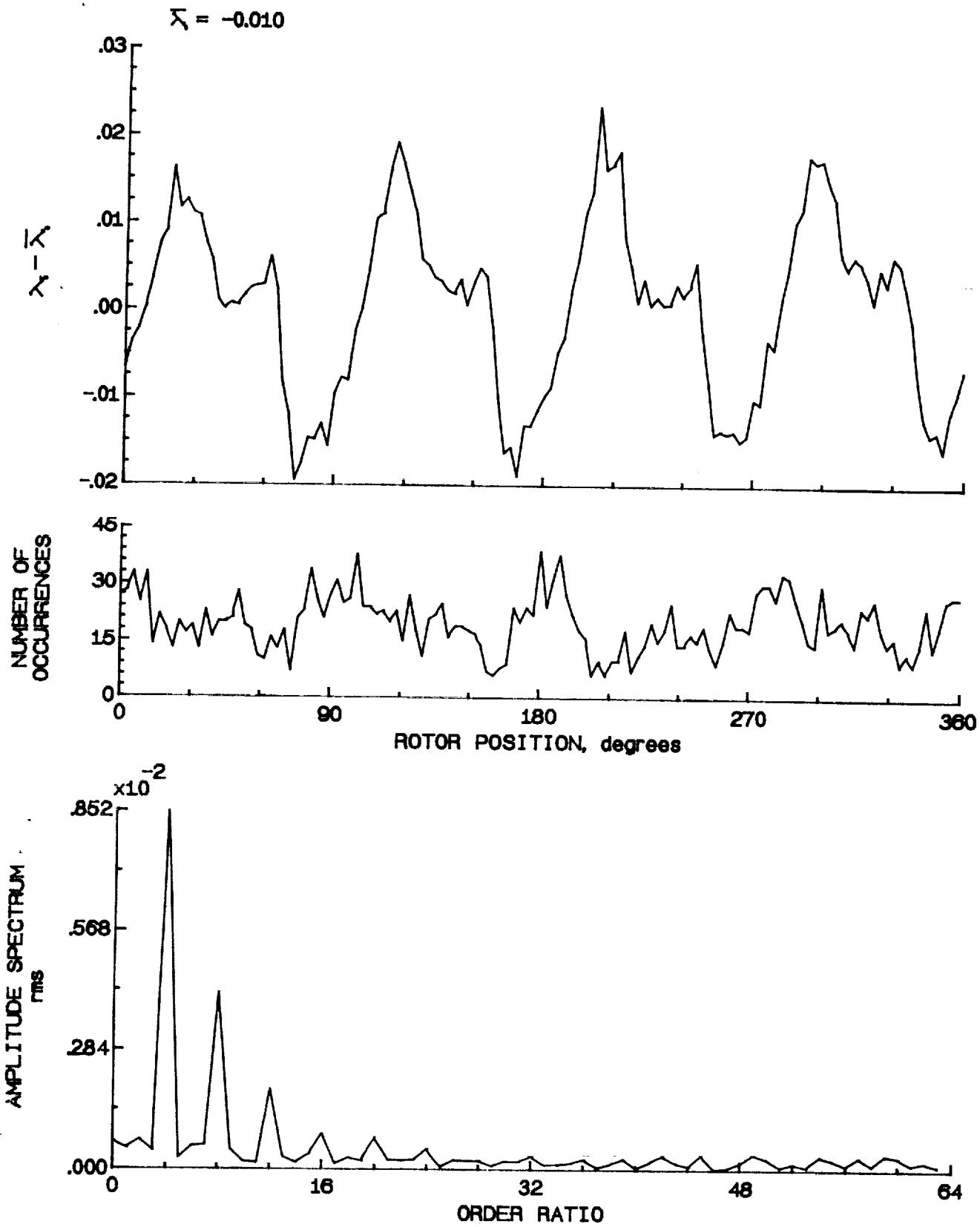


Figure 182.- Concluded.

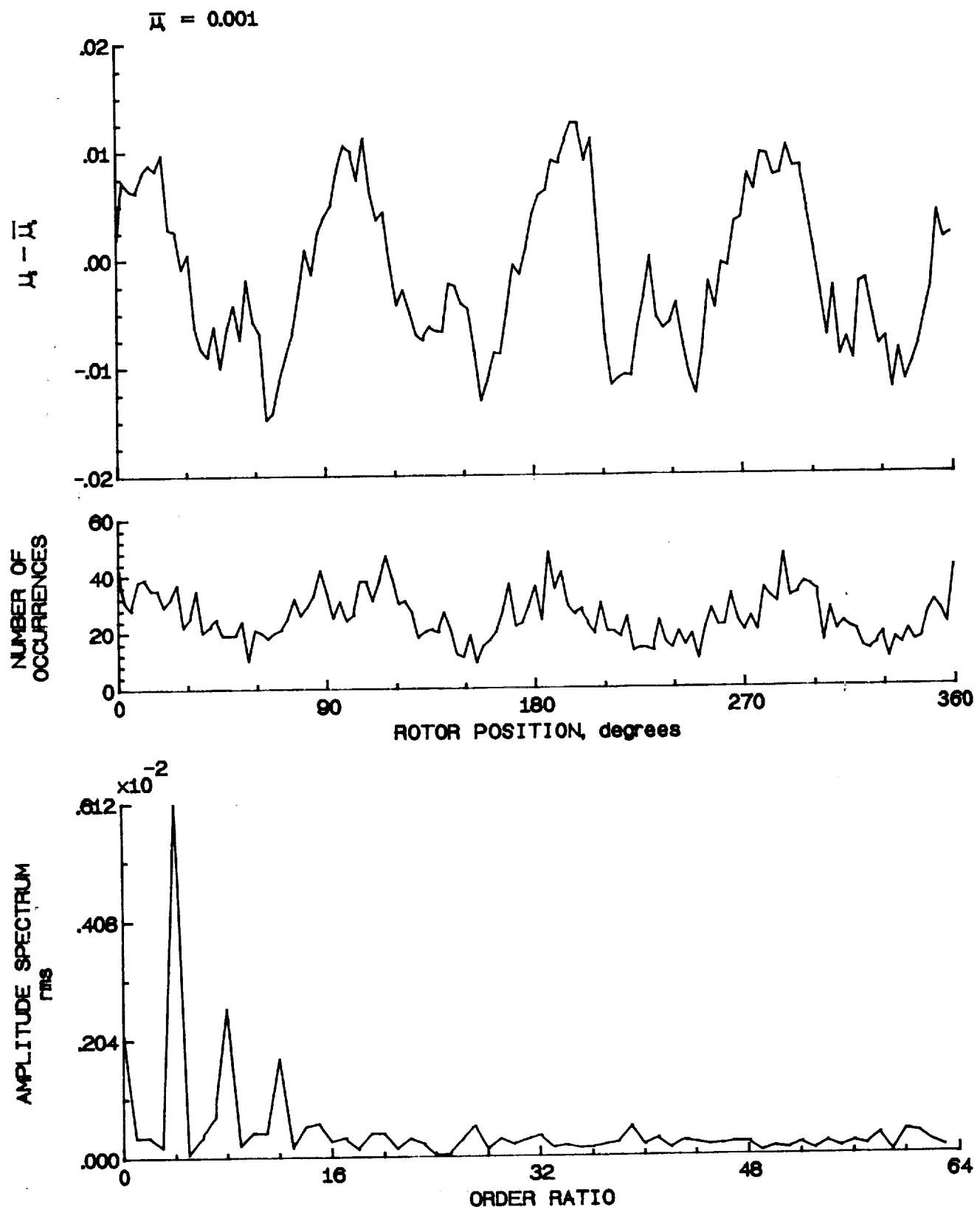


Figure 183.- Induced inflow velocity measured at 330 degrees and r/R of 0.94.

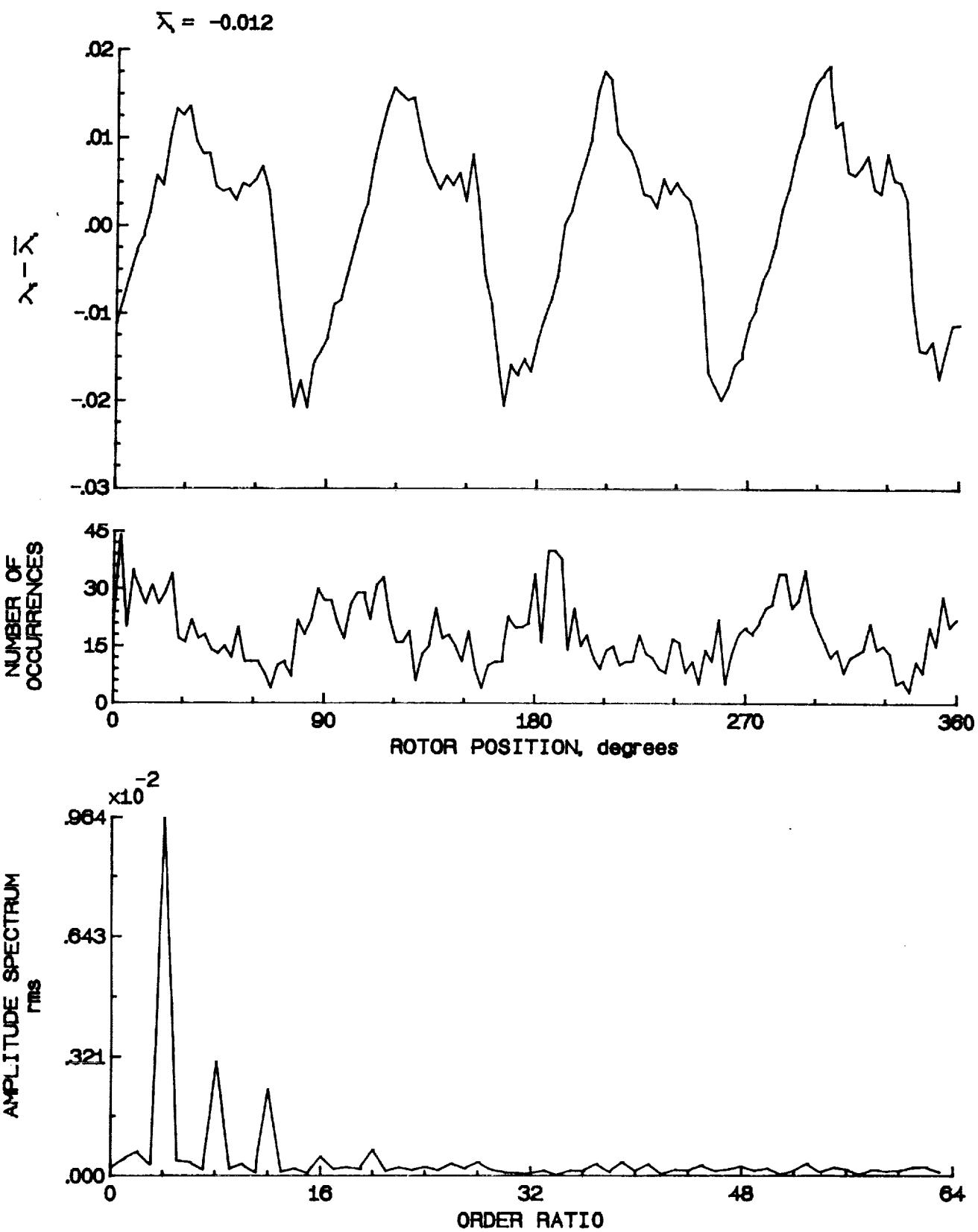


Figure 183.- Concluded.

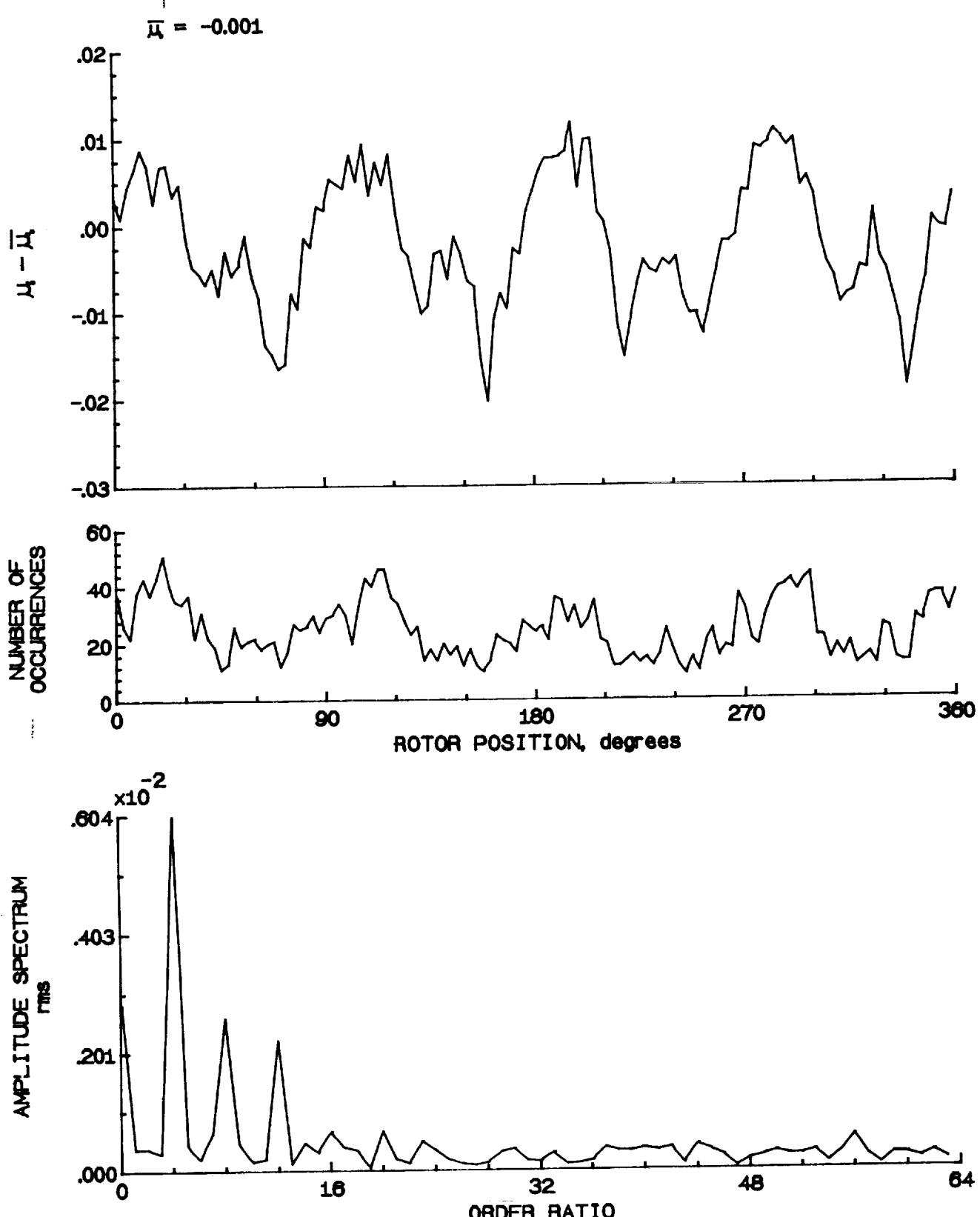


Figure 184.- Induced inflow velocity measured at 330 degrees and r/R of 0.96.

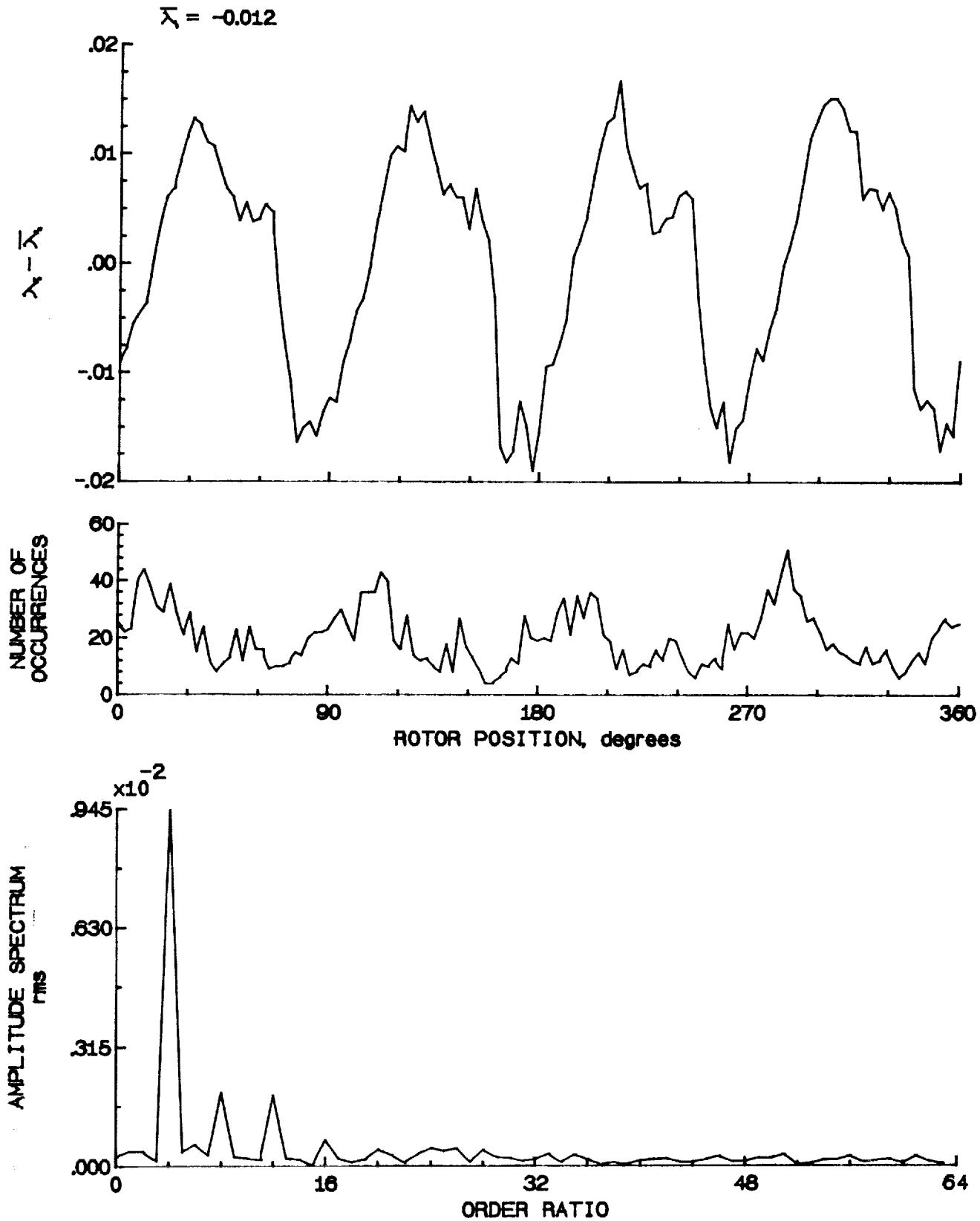


Figure 184.- Concluded.

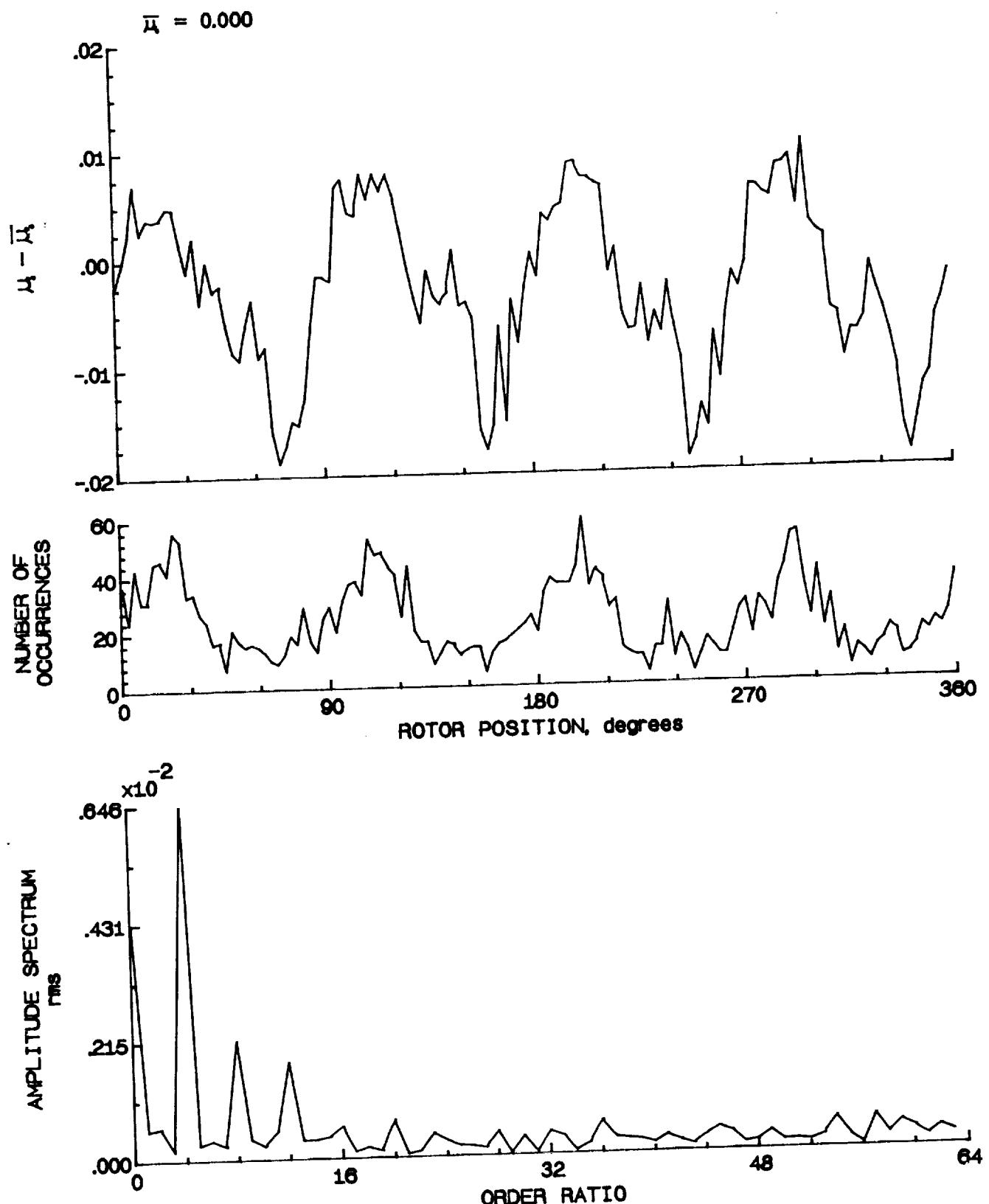


Figure 185.- Induced inflow velocity measured at 330 degrees and r/R of 1.00.

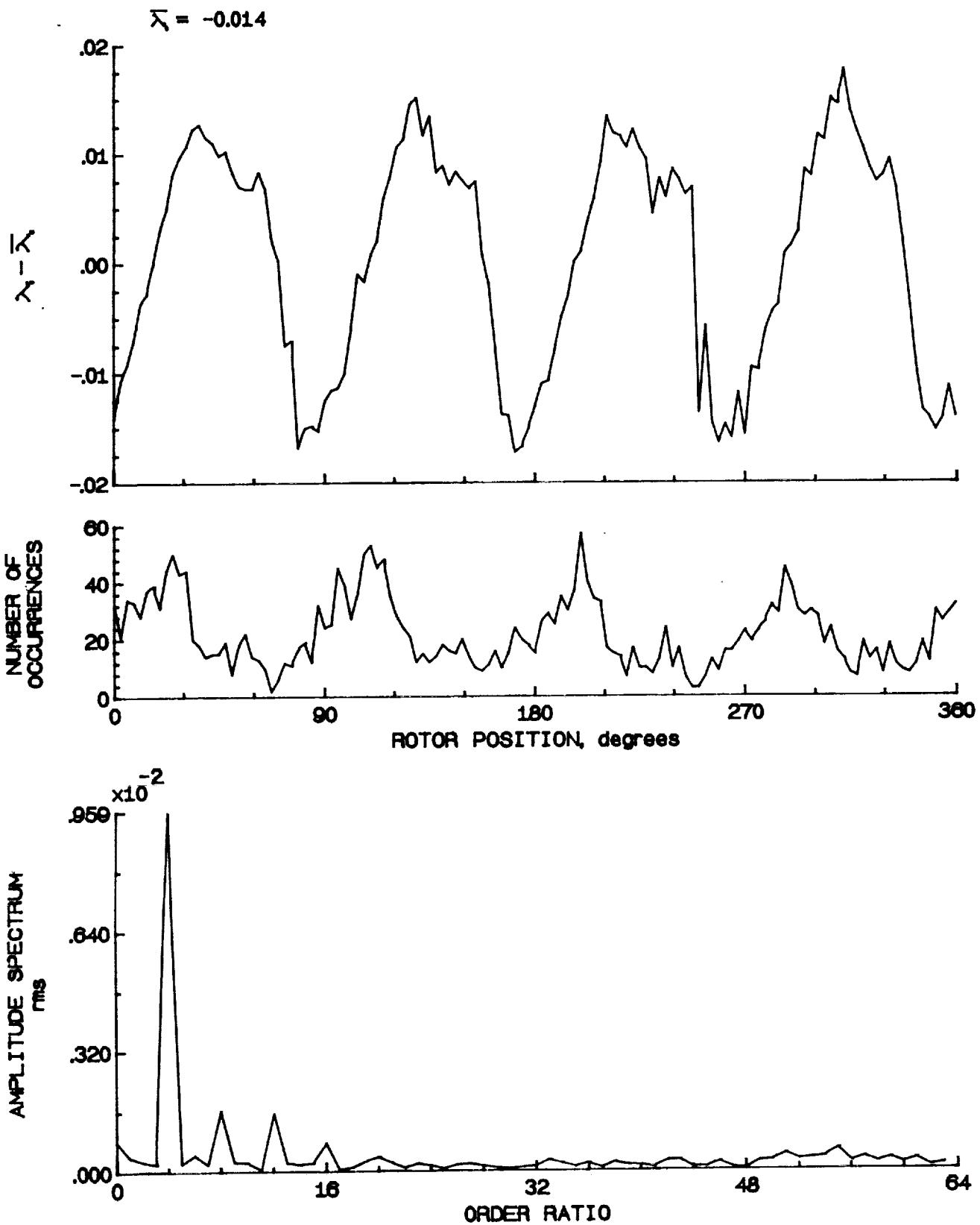


Figure 185.- Concluded.

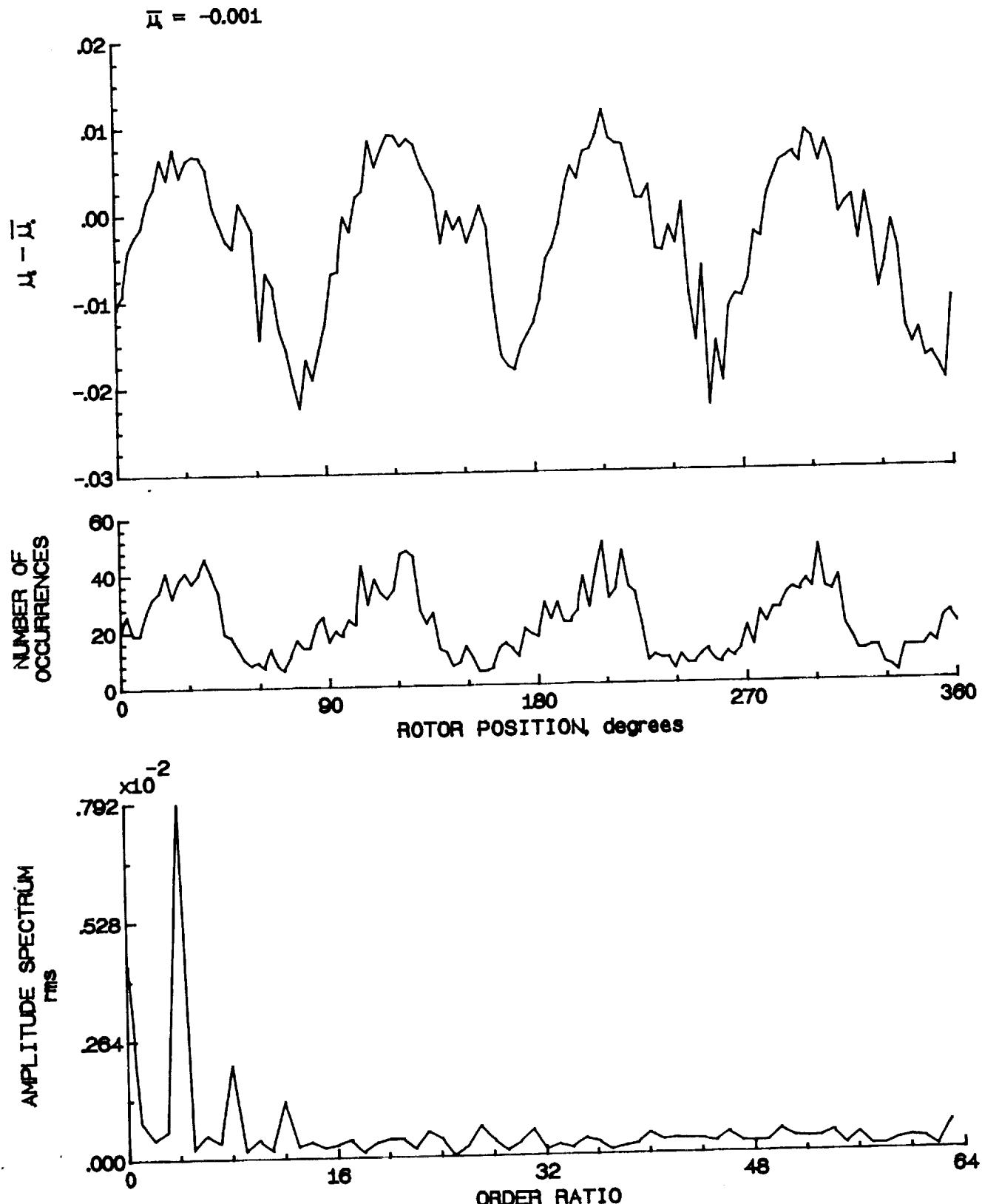


Figure 186.- Induced inflow velocity measured at 330 degrees and r/R of 1.10.

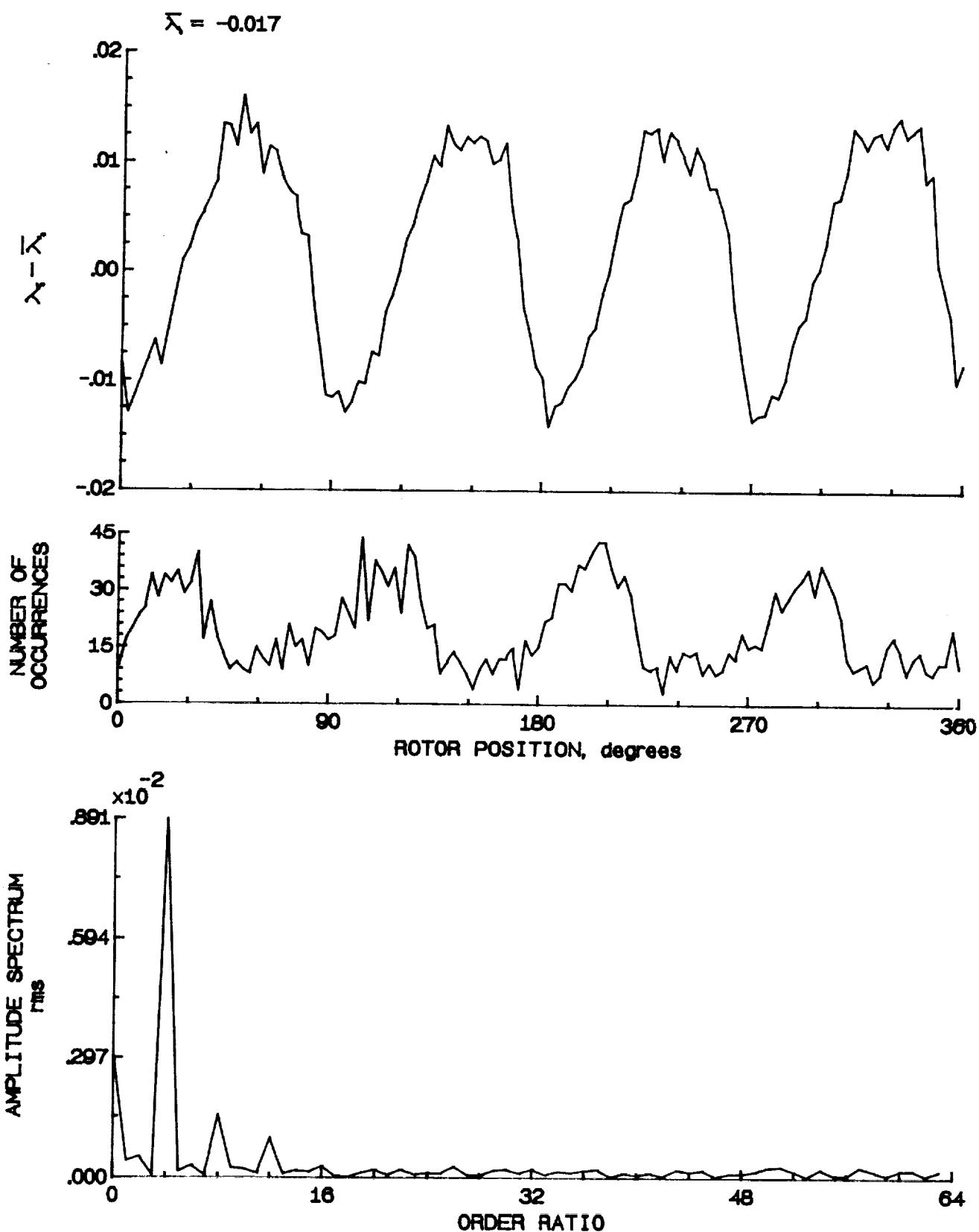
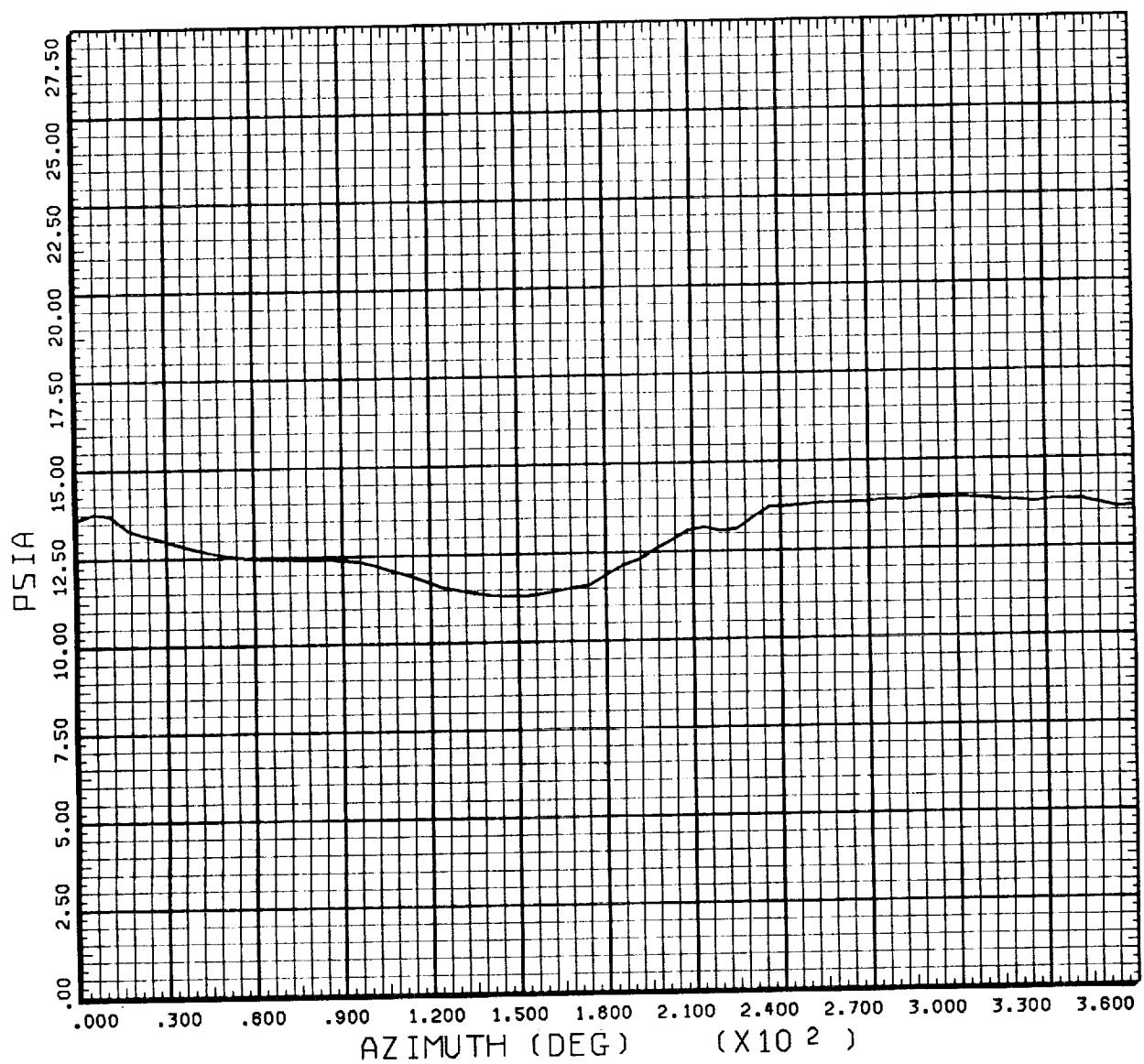


Figure 186.- Concluded.



TIME HISTORY:

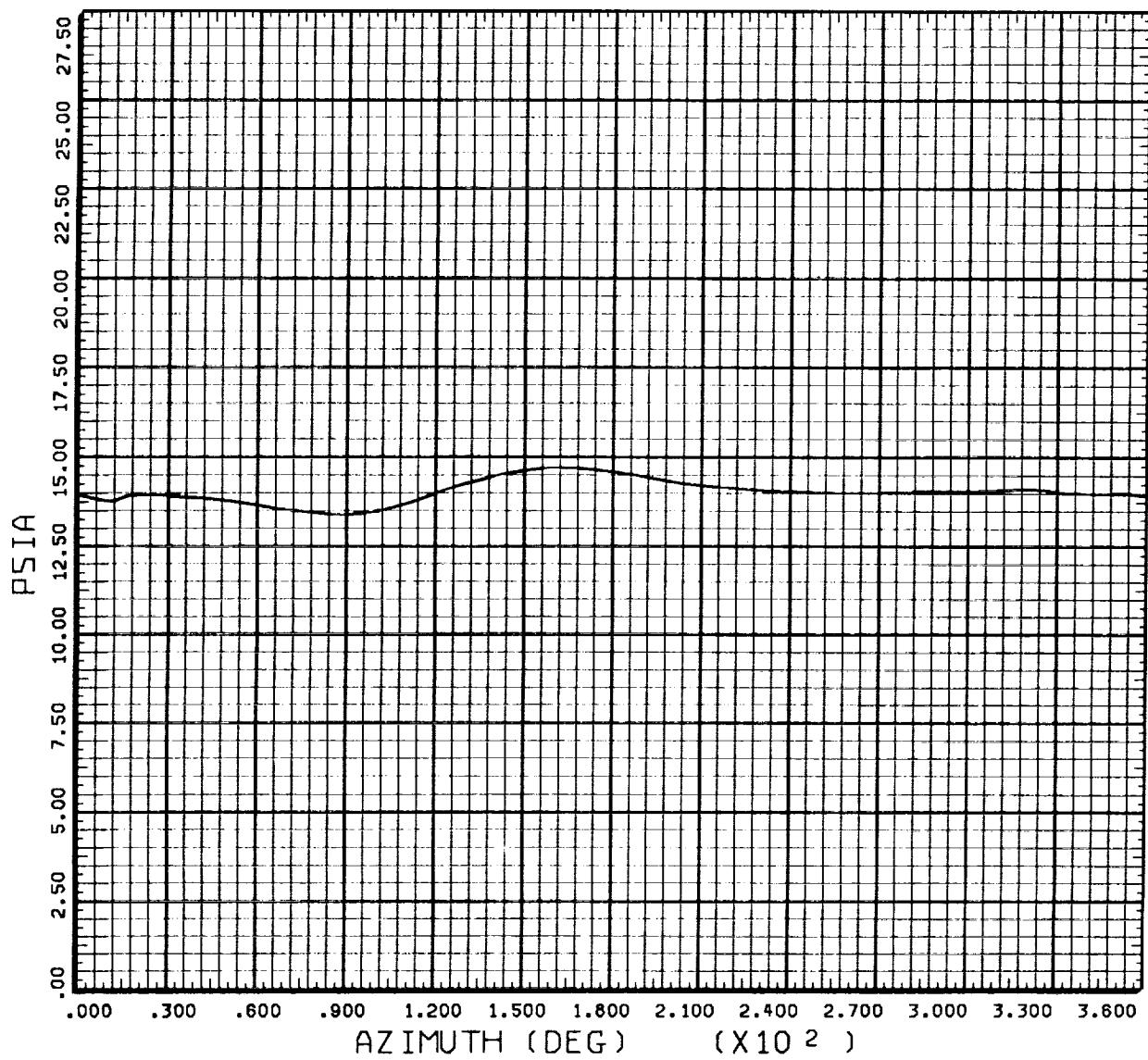
BLADE 2 PRESSURE TAP AT 0.325 RADIUS

COUNTER 269
.060 X/CHORD

RUN 18
UPPER SURFACE

325 R/RADIUS

Figure 187. Blade surface pressure.



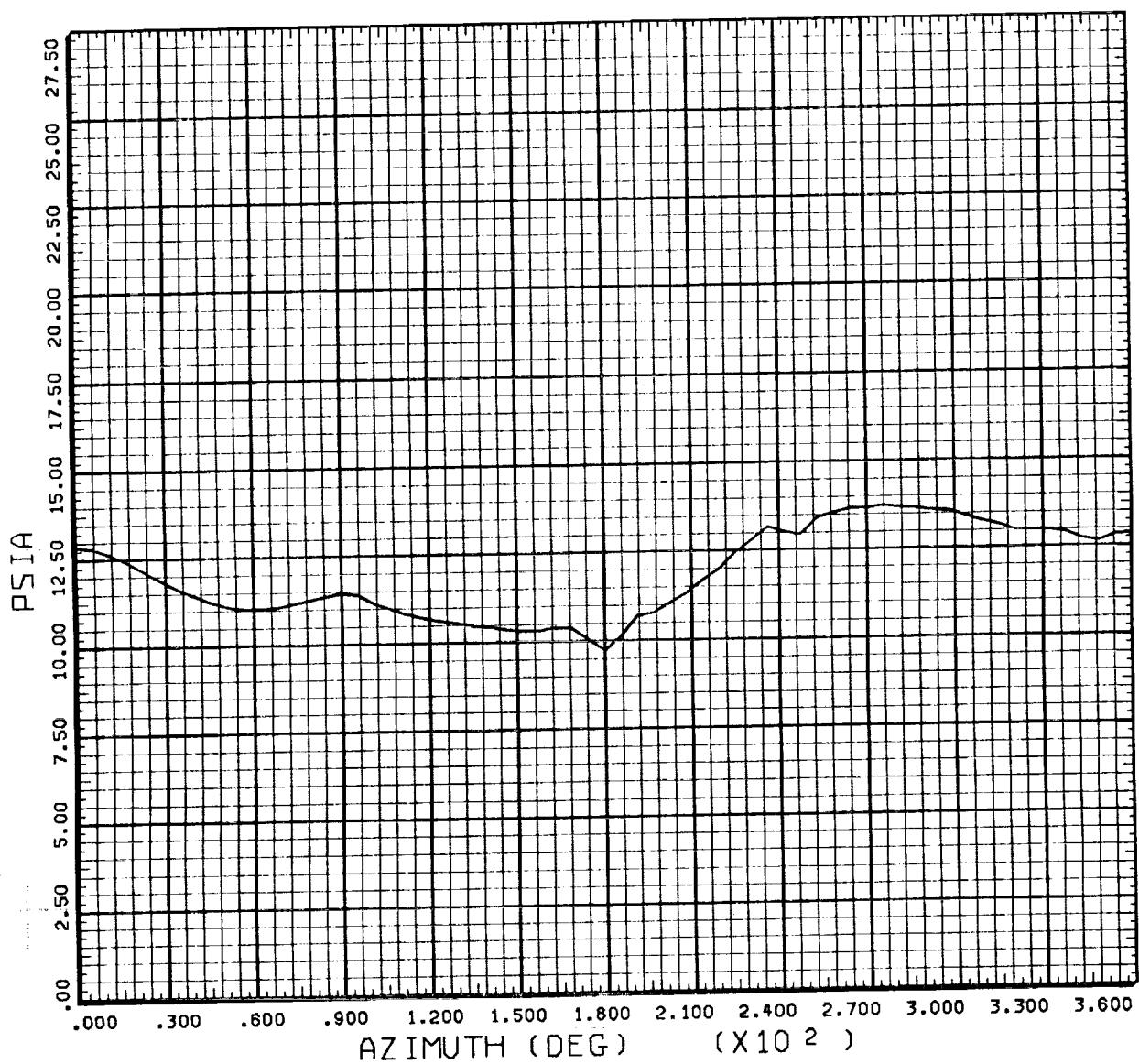
TIME HISTORY: BLADE 2 PRESSURE TAPS AT 0.325 RADIUS

COUNTER 269
.060 X/CHORD

RUN 18
LOWER SURFACE

— .325 R/RADIUS

Figure 188. Blade surface pressure.



TIME HISTORY:

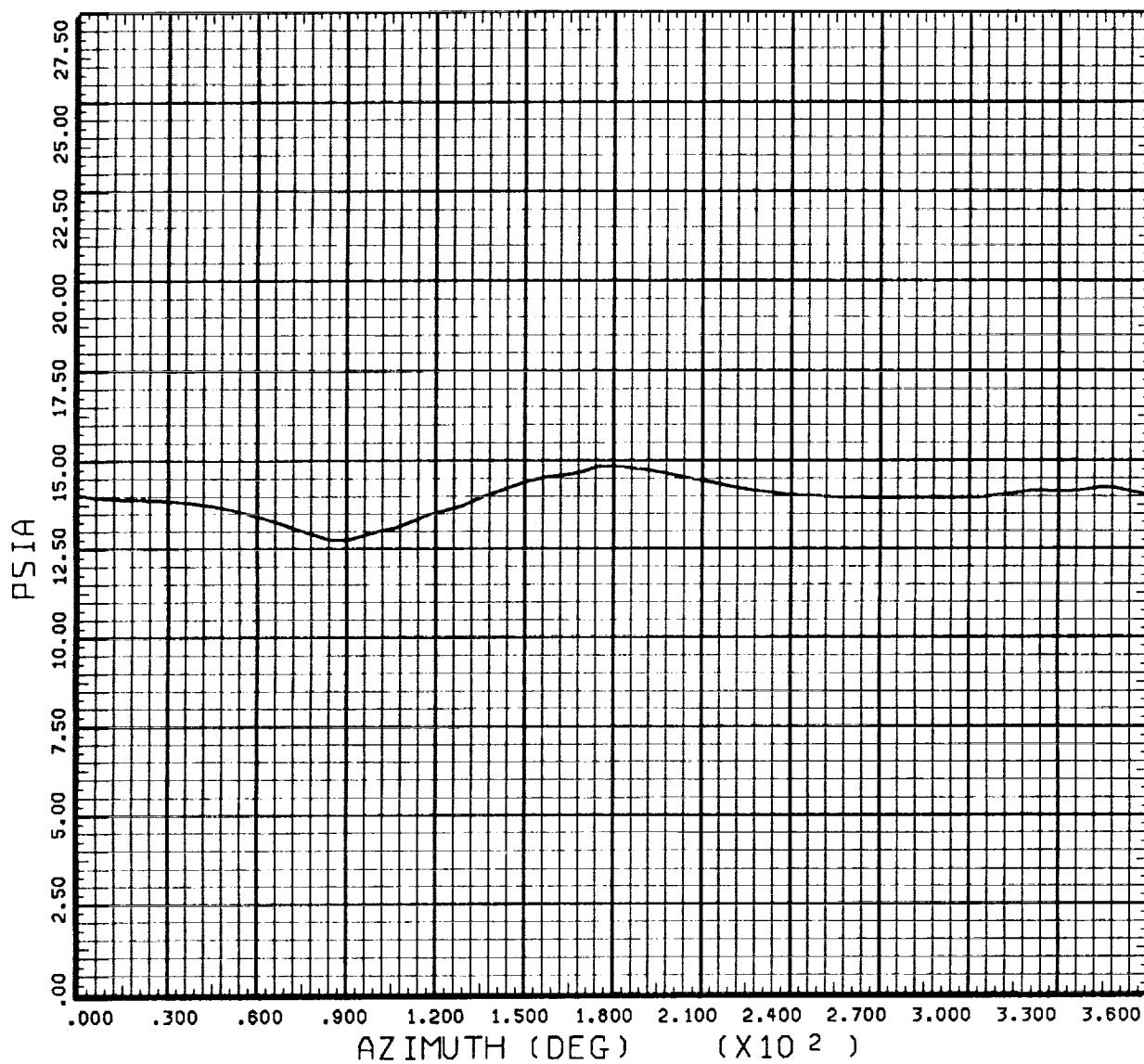
BLADE 2 PRESSURE TAPS AT 0.500 RADIUS

COUNTER 269
.060 X/CHORD

RUN 18
UPPER SURFACE

500 R/RADIUS

Figure 189. Blade surface pressure.



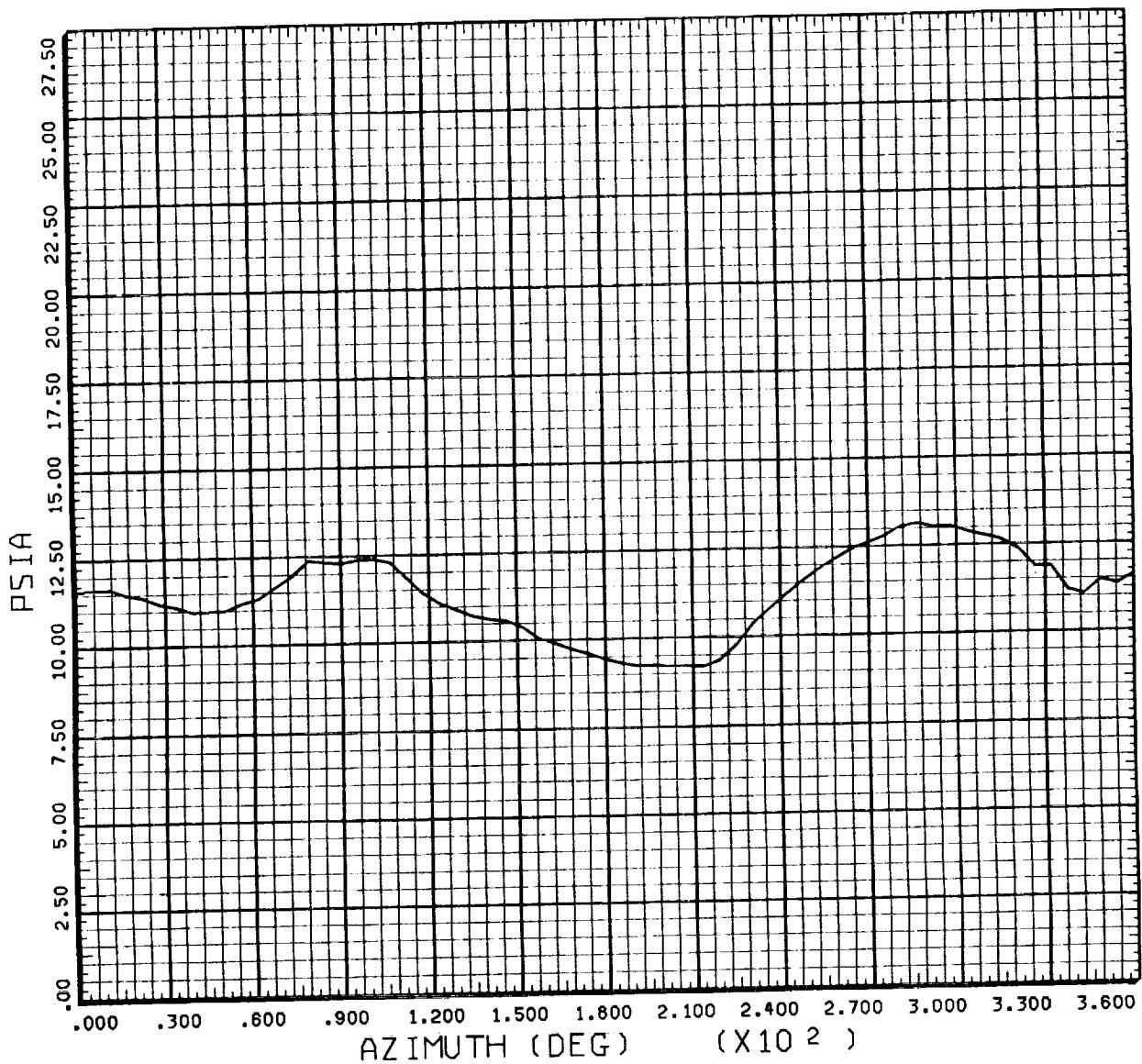
TIME HISTORY: BLADE 2 PRESSURE TAPS AT 0.500 RADIUS

COUNTER 269
.060 X/CHORD

RUN 18
LOWER SURFACE

.500 R/RADIUS

Figure 190. Blade surface pressure.



TIME HISTORY:

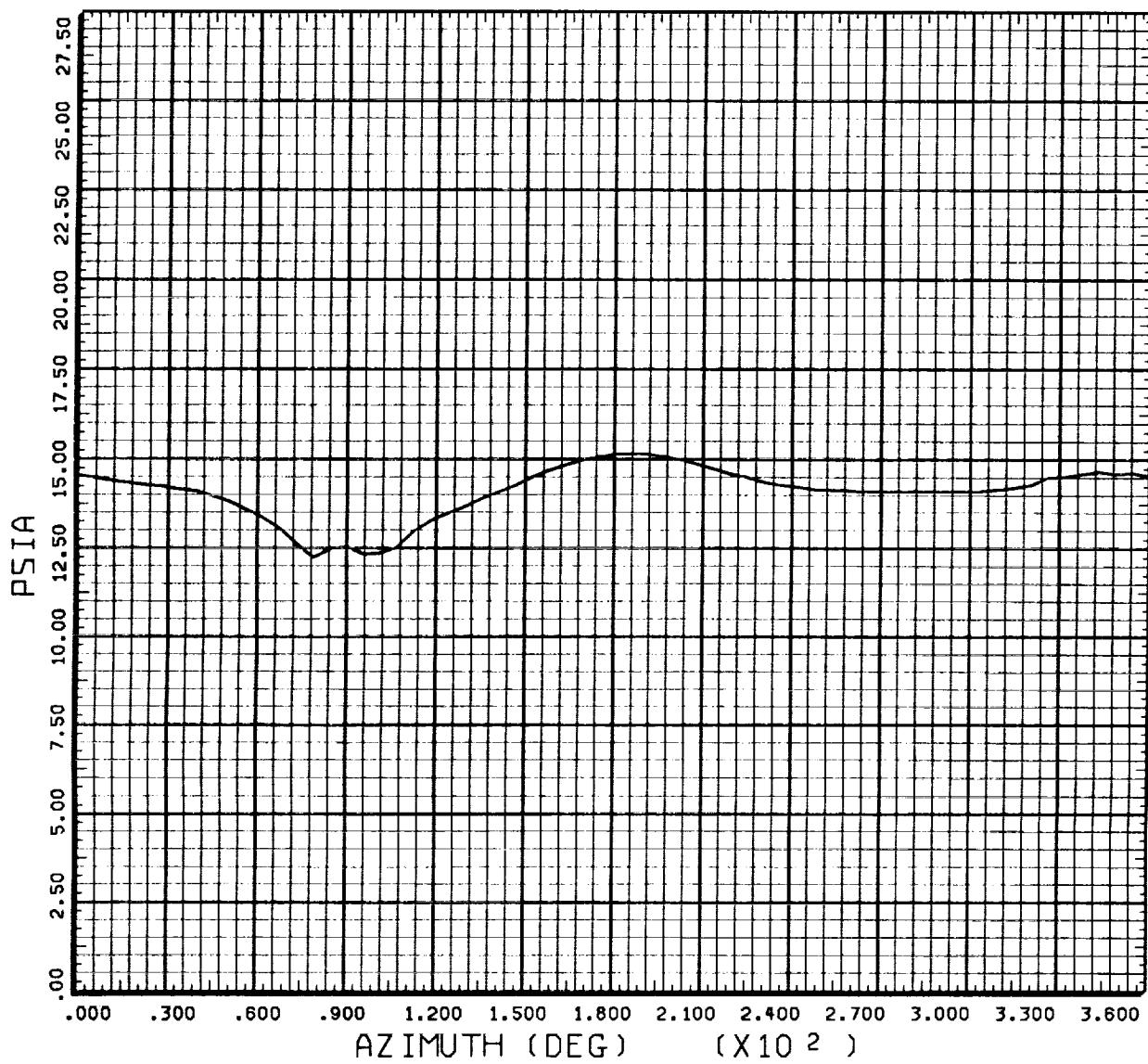
BLADE 2 PRESSURE TAPS AT 0.580 RADIUS

COUNTER 269
.026 X/CHORD

RUN 18
UPPER SURFACE

— .580 R/RADIUS

Figure 191. Blade surface pressure.



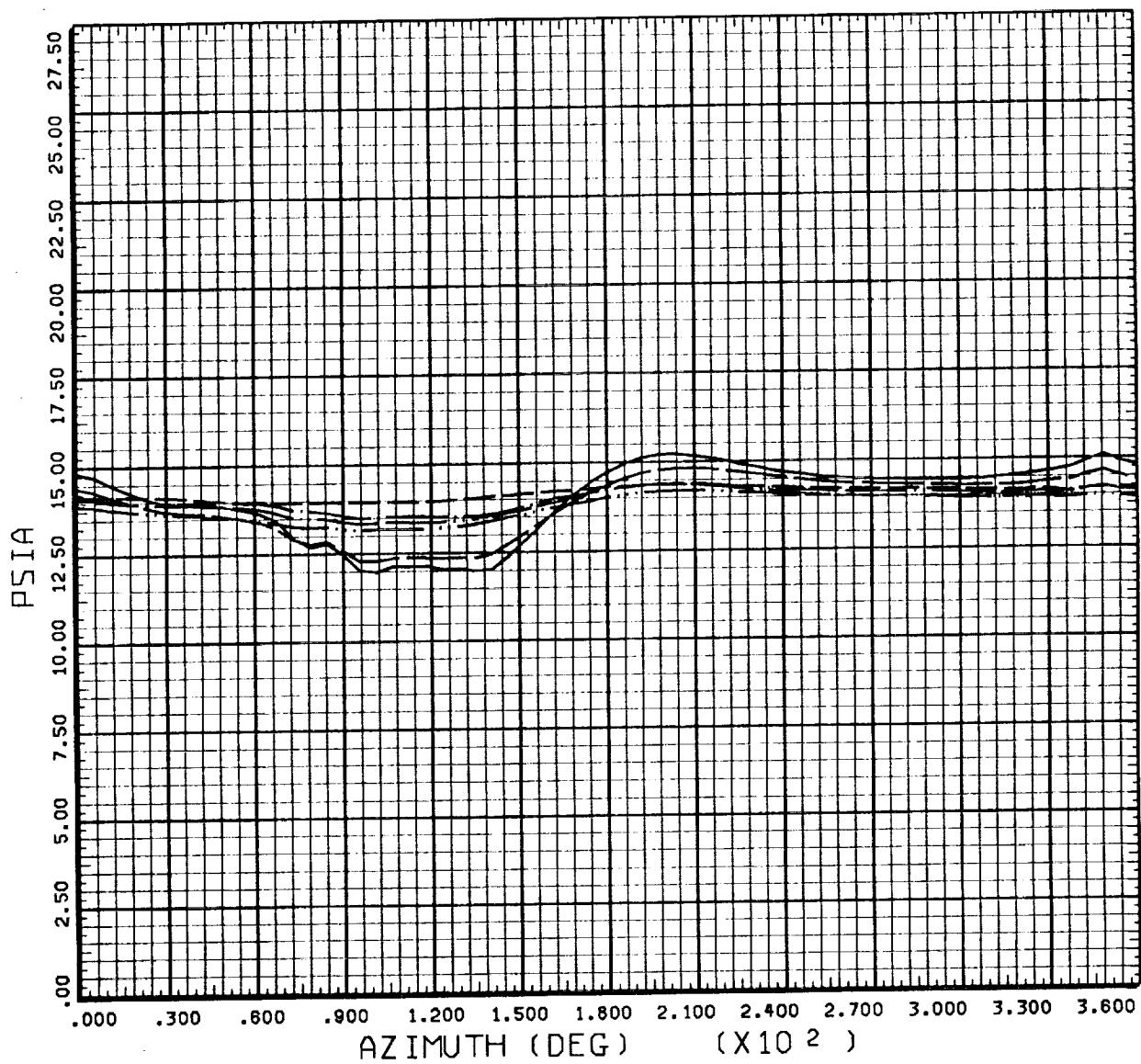
TIME HISTORY: BLADE 2 PRESSURE TAPS AT 0.5833 RADIUS

COUNTER .030 269
X/CHORD

RUN 18
LOWER SURFACE

.583 R/RADIUS

Figure 192. Blade surface pressure.



TIME HISTORY:

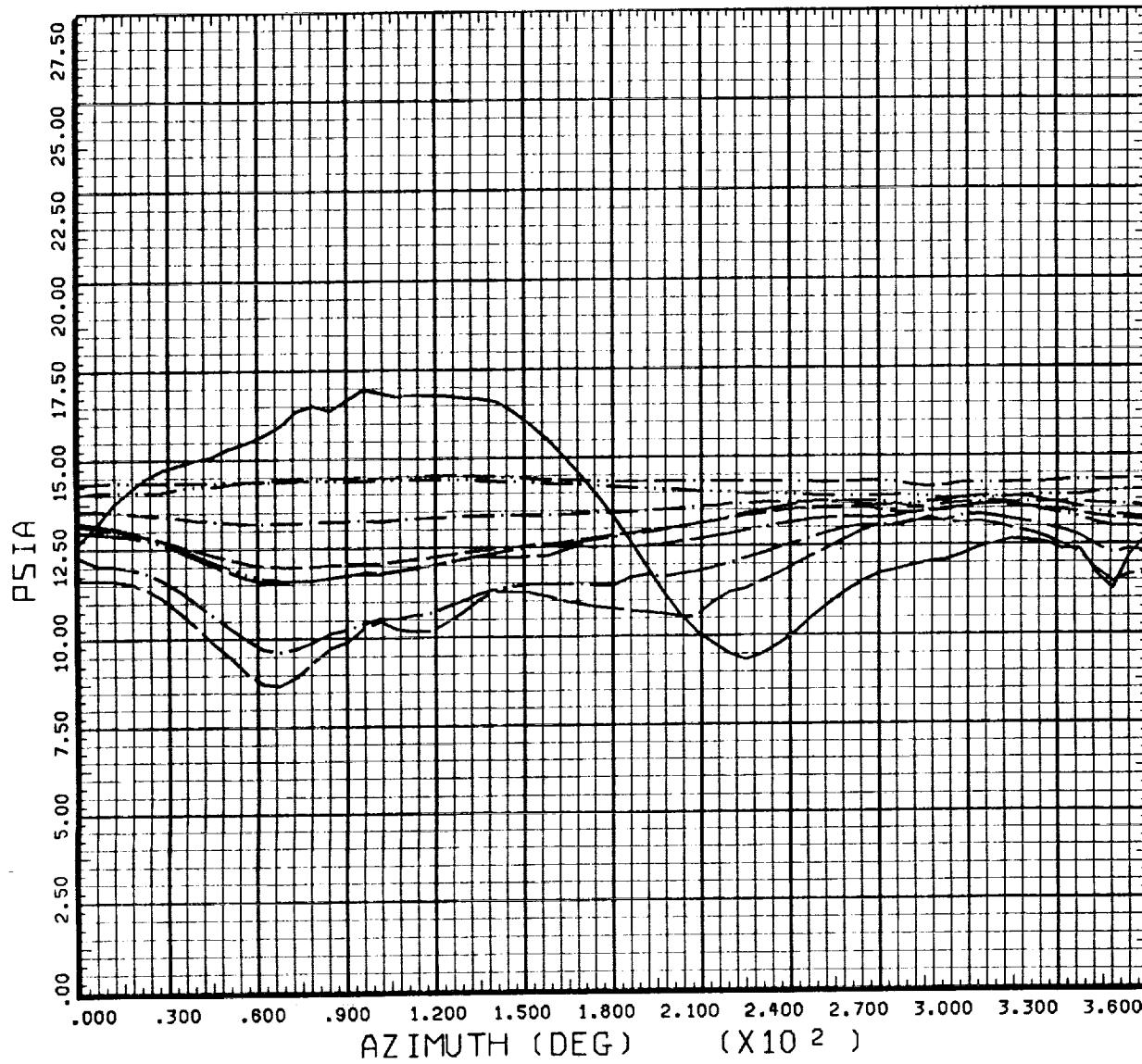
BLADE 4 PRESSURE TAPS AT 0.69 RADIUS

COUNTER 269
.685 R/RADIUS

RUN 18
LOWER SURFACE

-----	.034	X/CHORD
-----	.075	X/CHORD
-----	.207	X/CHORD
-----	.366	X/CHORD
-----	.500	X/CHORD
-----	.817	X/CHORD

Figure 193. Blade surface pressure.

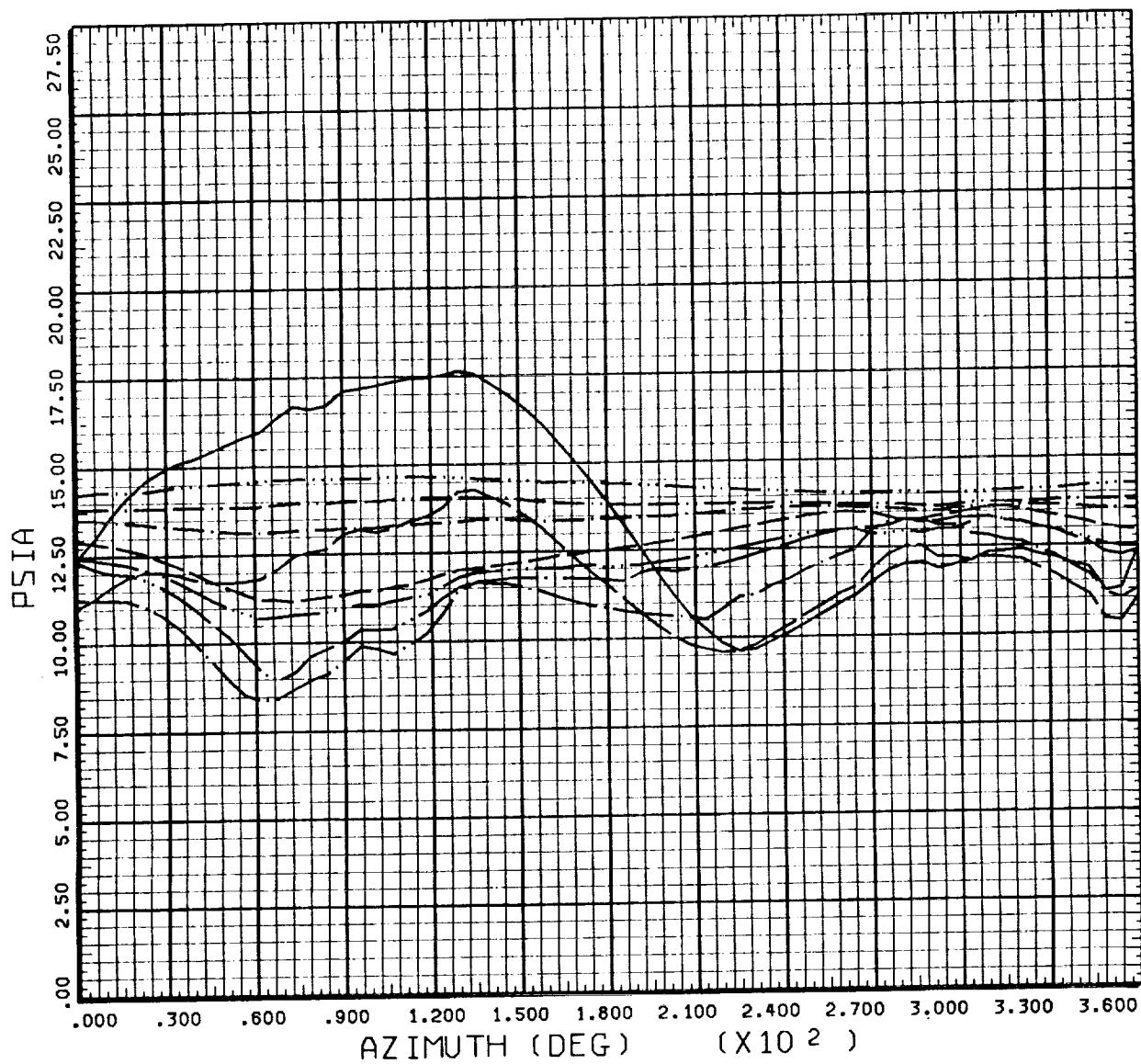


TIME HISTORY:

BLADE 4 PRESSURE TAPS AT 0.69 RADIUS

COUNTER .685	R/RADIUS 269		RUN 18
	.005	X/CHORD	----- .798 X/CHORD
	.074	X/CHORD	----- 1.000 X/CHORD
	.153	X/CHORD	
	.254	X/CHORD	
	.406	X/CHORD	
	.547	X/CHORD	
	.697	X/CHORD	

Figure 194. Blade surface pressure.

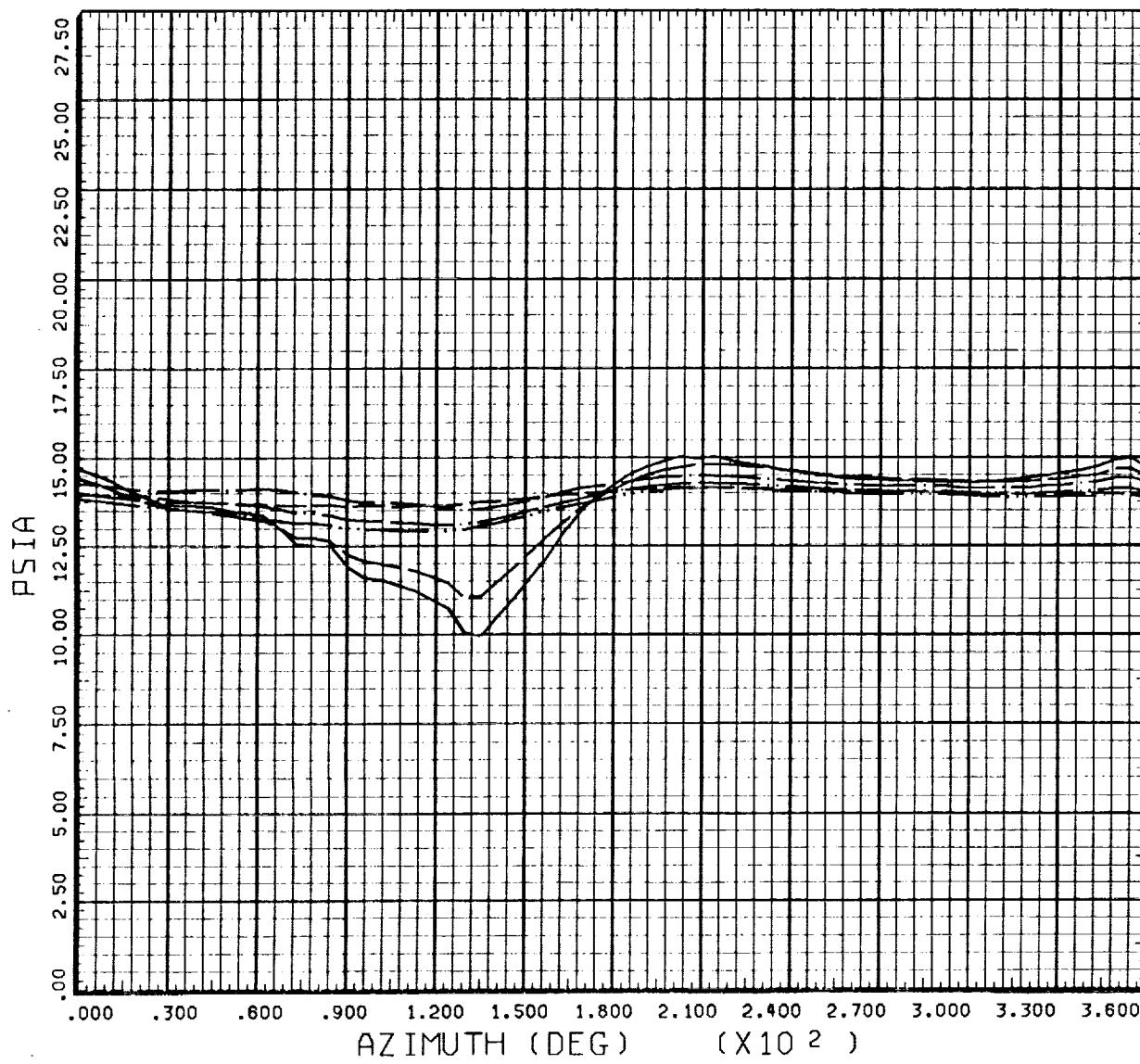


TIME HISTORY:

BLADE 4 PRESSURE TAPS AT 0.73 RADIUS

COUNTER .730	R/RADIUS 269	.005 X/CHORD	UPPER SURFACE --- .798 X/CHORD
		.026 X/CHORD	----- 1.000 X/CHORD
		.074 X/CHORD	
		.159 X/CHORD	
		.257 X/CHORD	
		.406 X/CHORD	
		.699 X/CHORD	

Figure 195. Blade surface pressure.



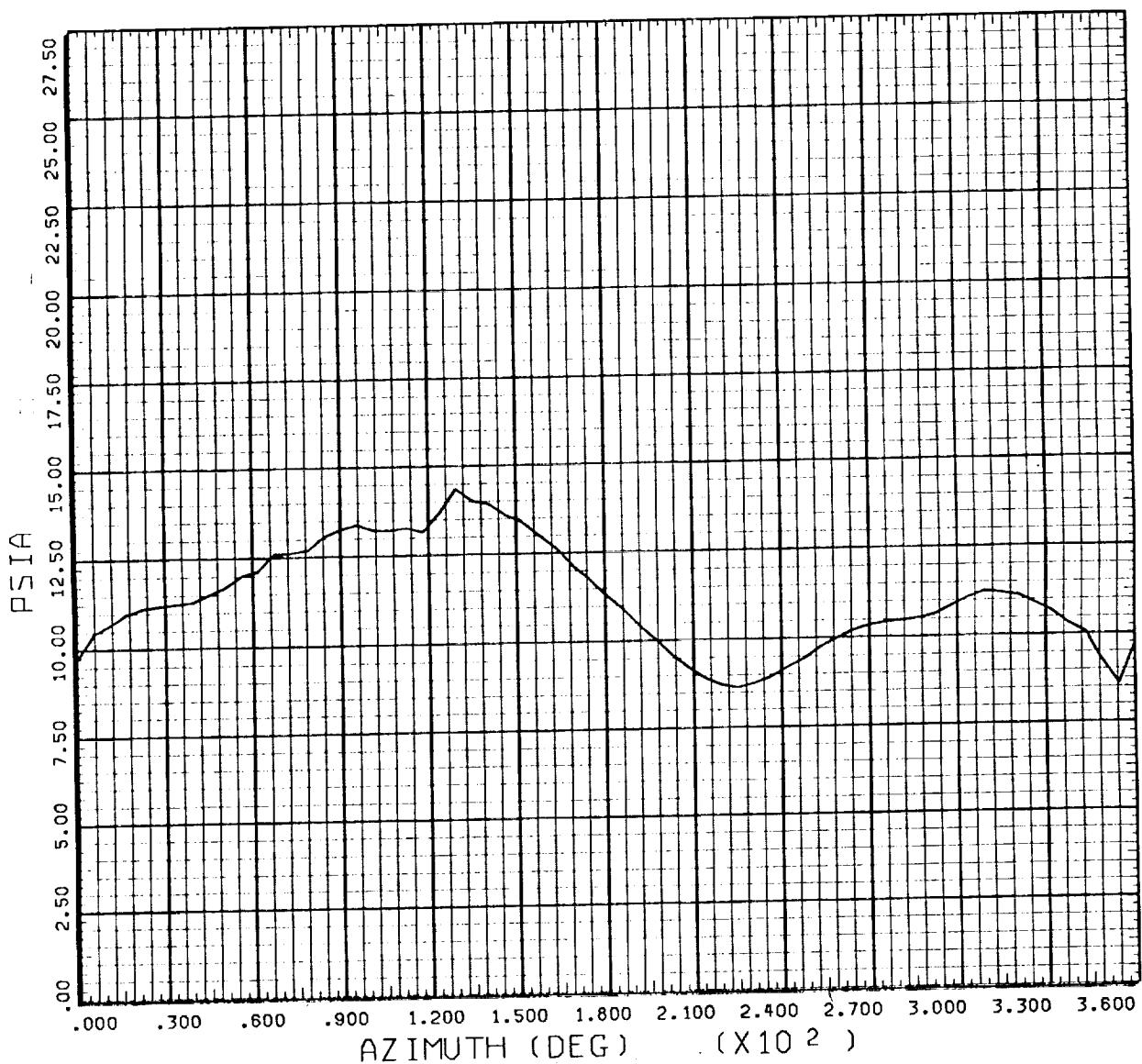
TIME HISTORY: BLADE 4 PRESSURE TAPS AT 0.73 RADIUS

COUNTER 269
.730 R/RADIUS

RUN 18
LOWER SURFACE

-----	.034	X/CHORD
-----	.075	X/CHORD
-----	.207	X/CHORD
-----	.363	X/CHORD
-----	.500	X/CHORD
-----	.817	X/CHORD

Figure 196. Blade surface pressure.



TIME HISTORY:

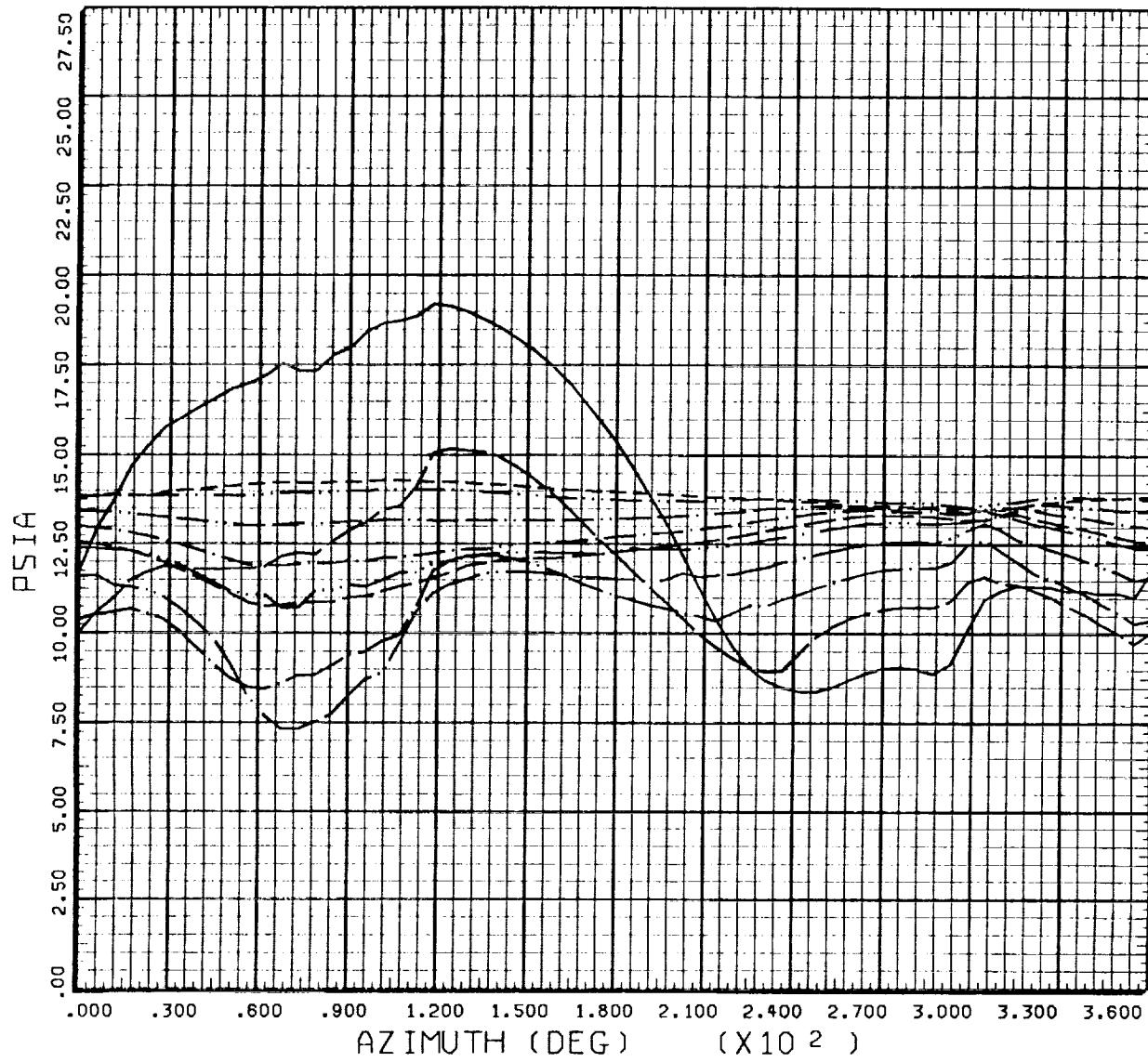
BLADE 2 PRESSURE TAPS AT 0.750 RADIUS

COUNTER 269
.026 X/CHORD

RUN 18
UPPER SURFACE

750 R/RADIUS

Figure 197. Blade surface pressure.

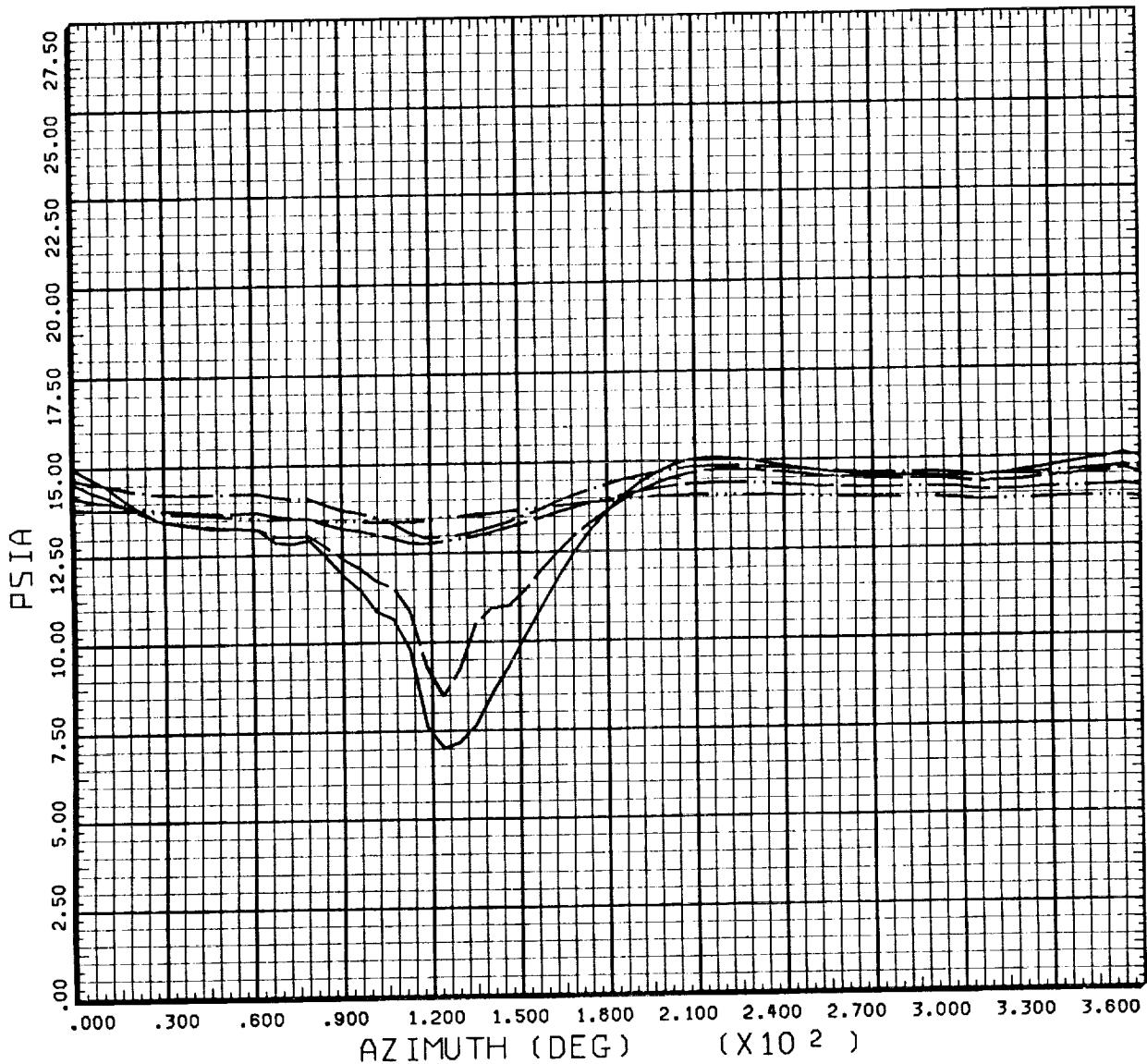


TIME HISTORY:

BLADE 4 PRESSURE TAPS AT 0.81 RADIUS

COUNTER .806	R/RADIUS 269	RUN 18
		UPPER SURFACE
	.001 X/CHORD	.698 X/CHORD
	.025 X/CHORD	.798 X/CHORD
	.075 X/CHORD	1.000 X/CHORD
	.161 X/CHORD	
	.262 X/CHORD	
	.405 X/CHORD	
	.555 X/CHORD	

Figure 198. Blade surface pressure.

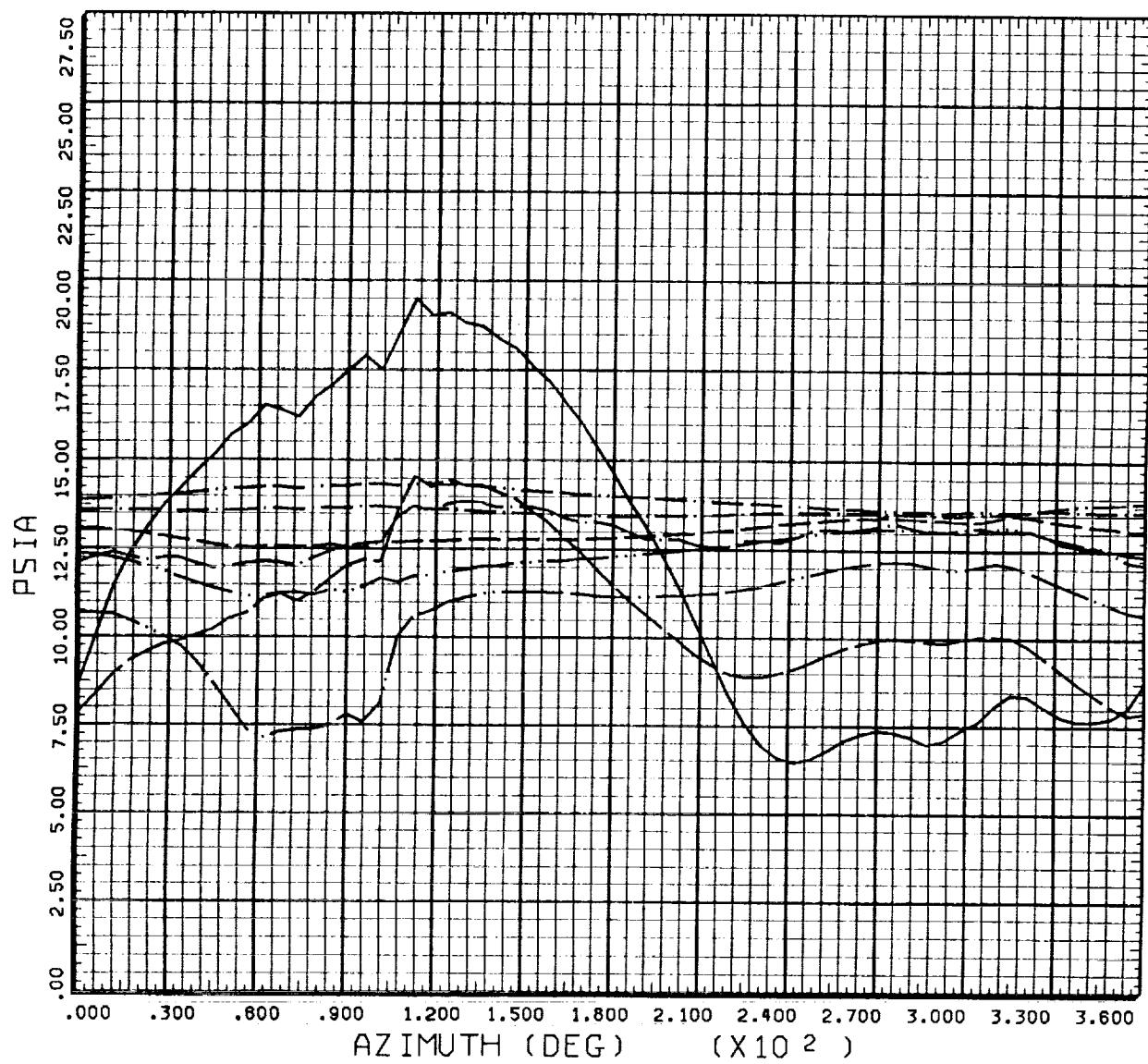


TIME HISTORY:

BLADE 4 PRESSURE TAPS AT 0.81 RADIUS

COUNTER	R/RADIUS		RUN 18
.806	269		LOWER SURFACE
		.034 X/CHORD	
		.075 X/CHORD	
		.207 X/CHORD	
		.366 X/CHORD	
		.818 X/CHORD	

Figure 199. Blade surface pressure.

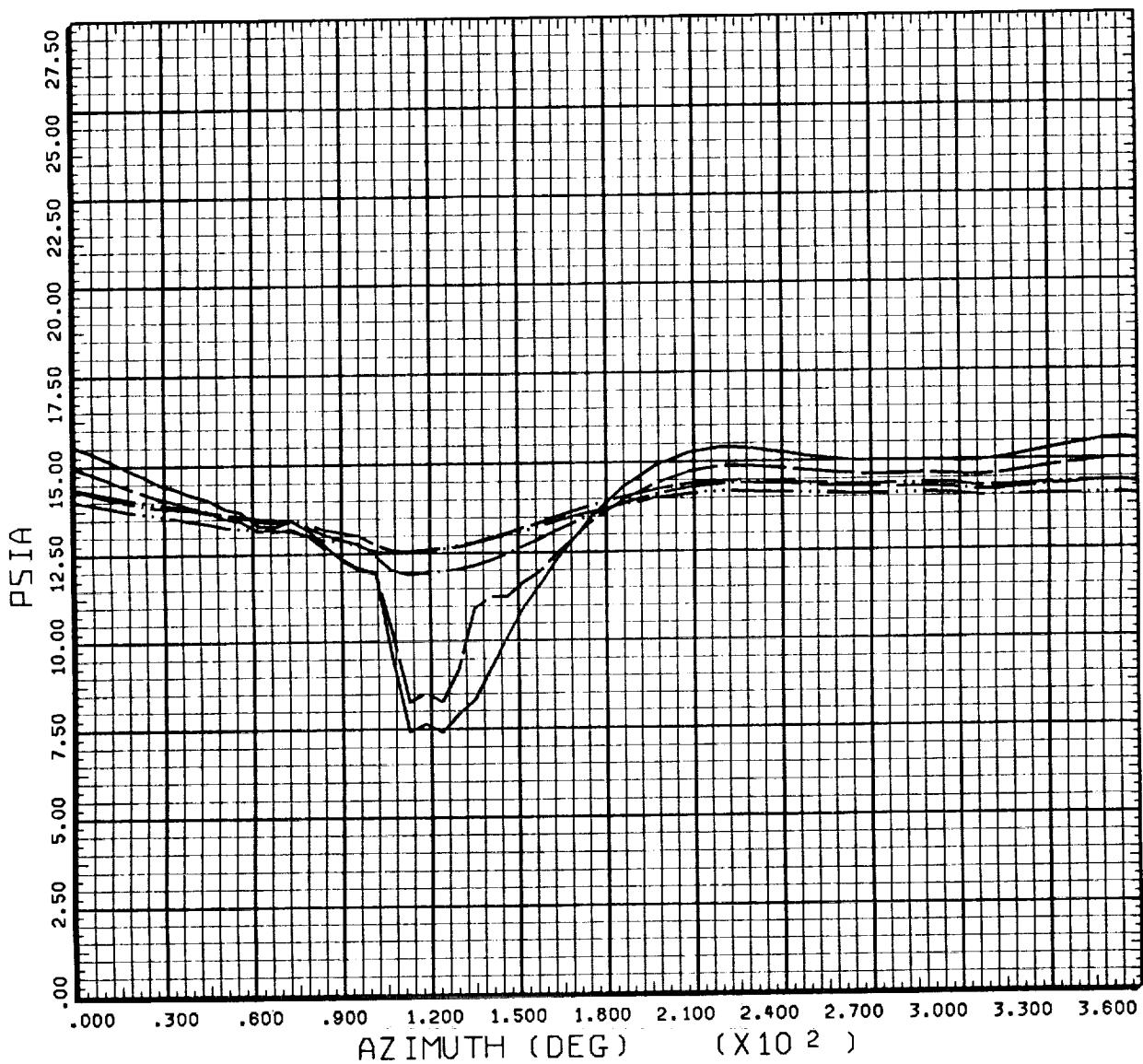


TIME HISTORY:

BLADE 2 PRESSURE TAPS AT 0.87 RADIUS

COUNTER	R/RADIUS		RUN 18
.866	269		UPPER SURFACE
		.002 X/CHORD	----- 1.000 X/CHORD
		.027 X/CHORD	
		.067 X/CHORD	
		.153 X/CHORD	
		.400 X/CHORD	
		.555 X/CHORD	
		.797 X/CHORD	

Figure 200. Blade surface pressure.

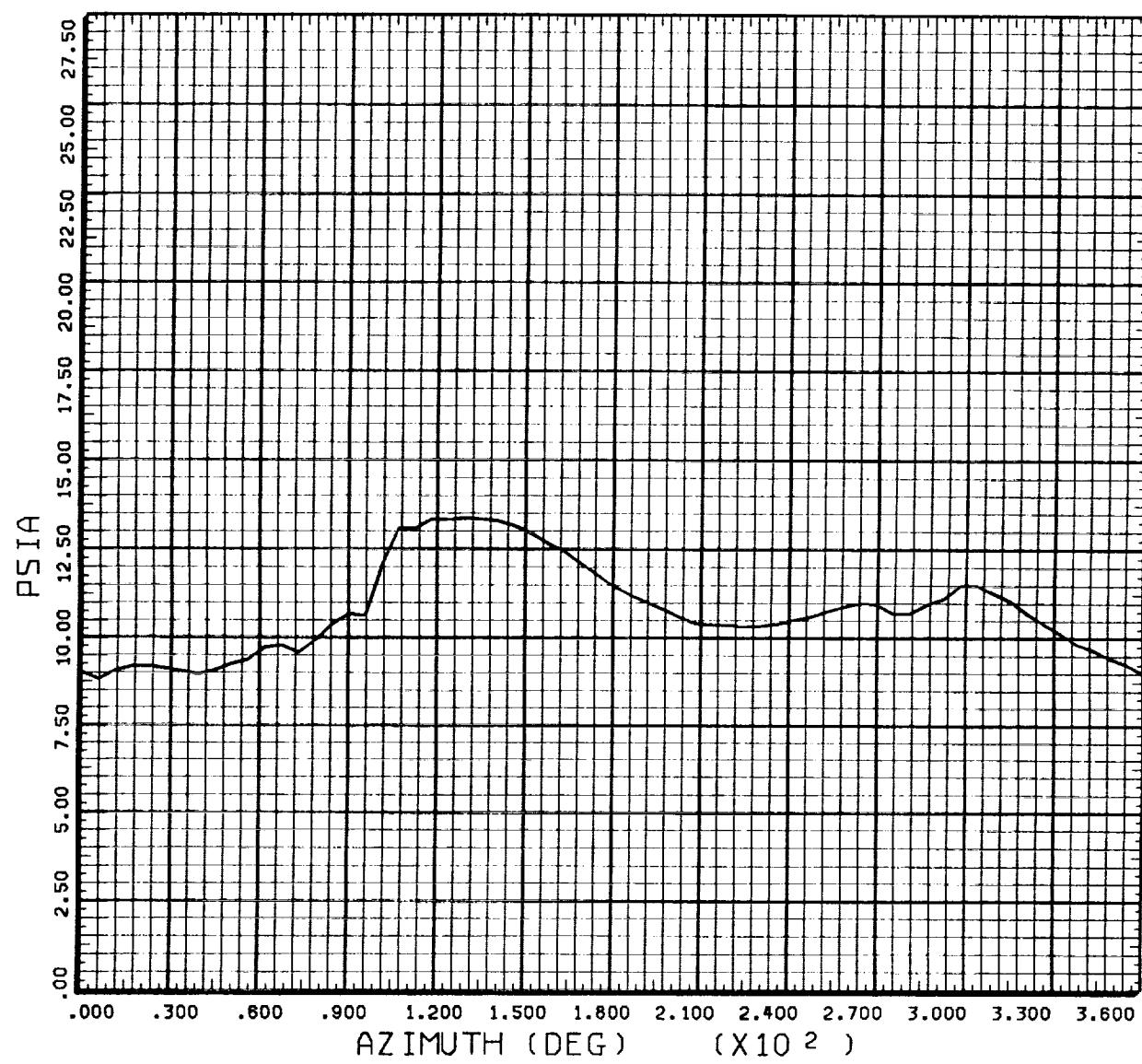


TIME HISTORY:

BLADE 2 PRESSURE TAPS AT 0.87 RADIUS

COUNTER	R/RADIUS		RUN 18
.866	269		LOWER SURFACE
		.040 X/CHORD	
		.070 X/CHORD	
		.208 X/CHORD	
		.354 X/CHORD	
		.504 X/CHORD	

Figure 201. Blade surface pressure.



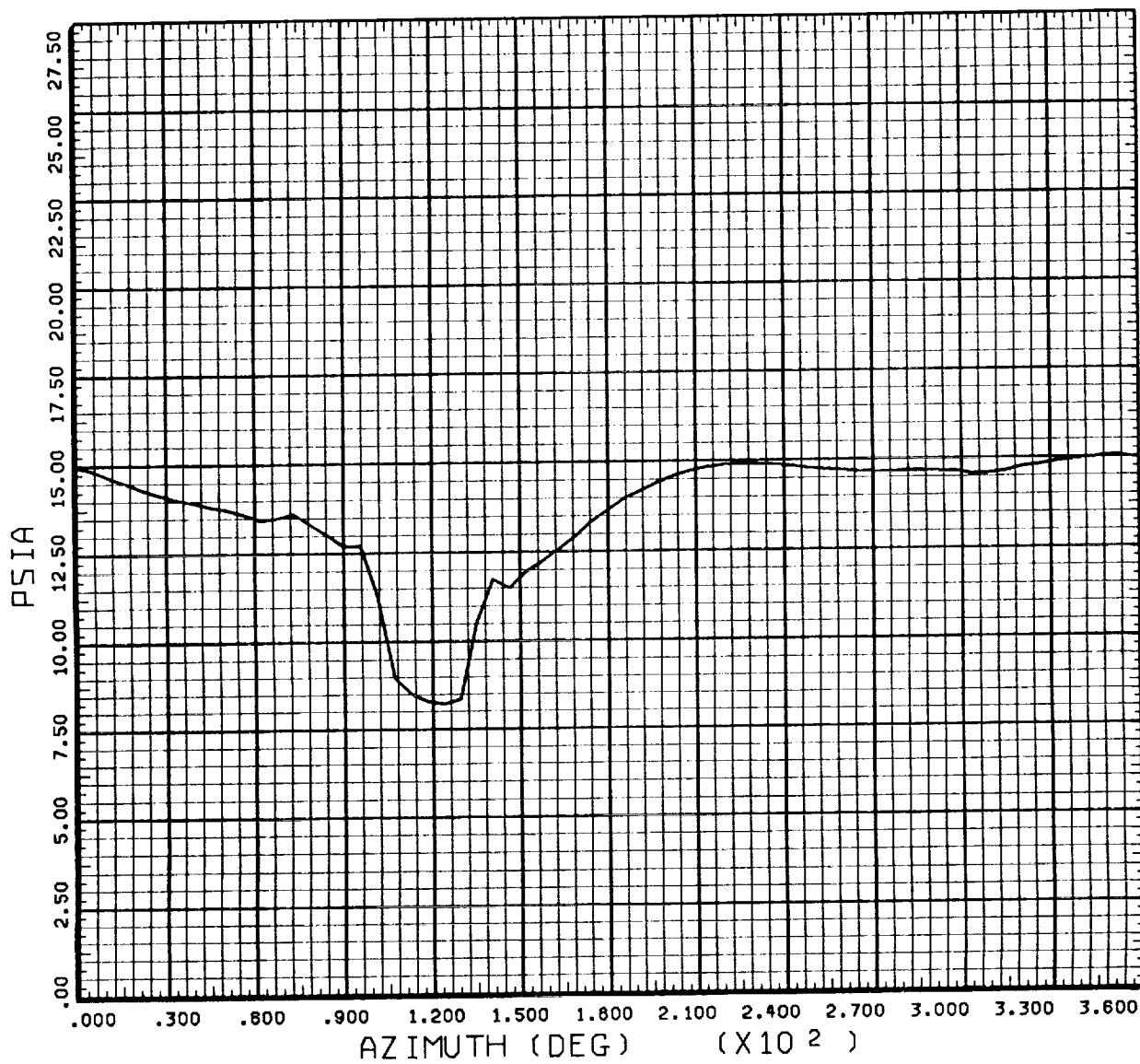
TIME HISTORY: BLADE 2 PRESSURE TAPS AT 0.9025 RADIUS

COUNTER 269
.052 X/CHORD

RUN 18
UPPER SURFACE

.903 R/RADIUS

Figure 202. Blade surface pressure.



TIME HISTORY:

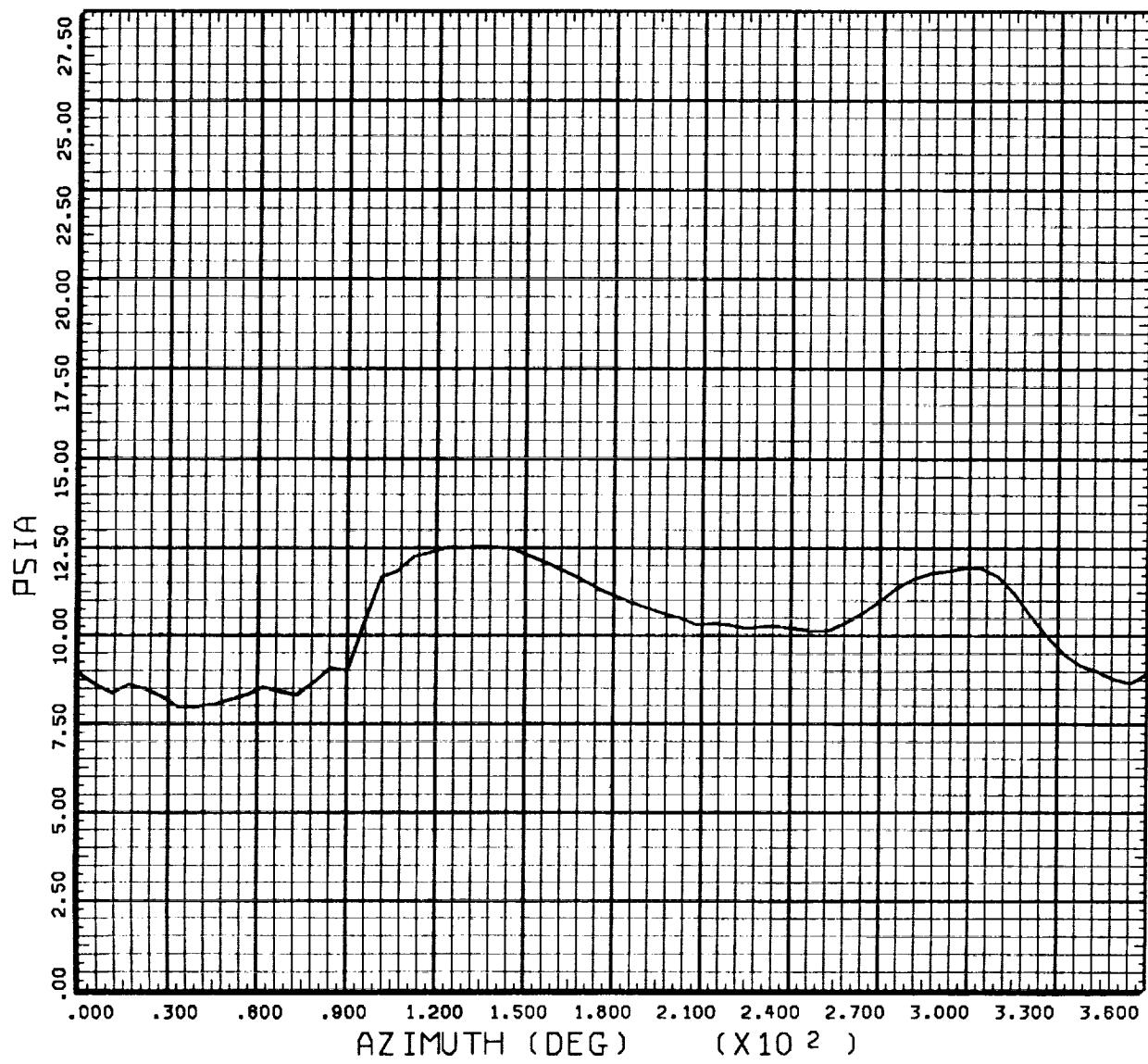
BLADE 2 PRESSURE TAPS AT 0.9025 RADIUS

COUNTER 269
.067 X/CHORD

RUN 18
LOWER SURFACE

_____ .903 R/RADIUS

Figure 203. Blade surface pressure.



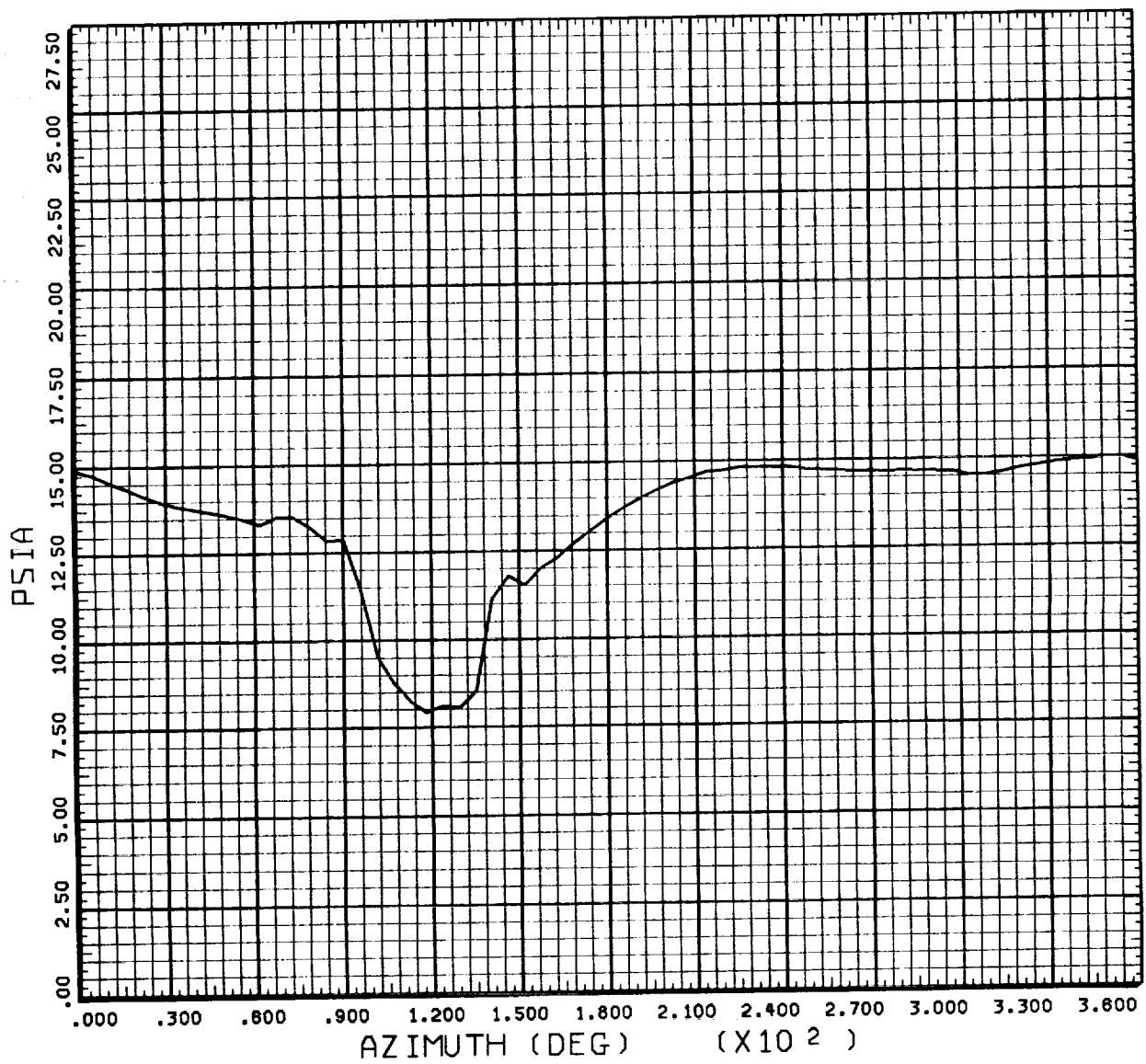
TIME HISTORY: BLADE 2 PRESSURE TAPS AT 0.940 RADIUS

COUNTER 269
.052 X/CHORD

RUN 18
UPPER SURFACE

.940 R/RADIUS

Figure 204. Blade surface pressure.



TIME HISTORY:

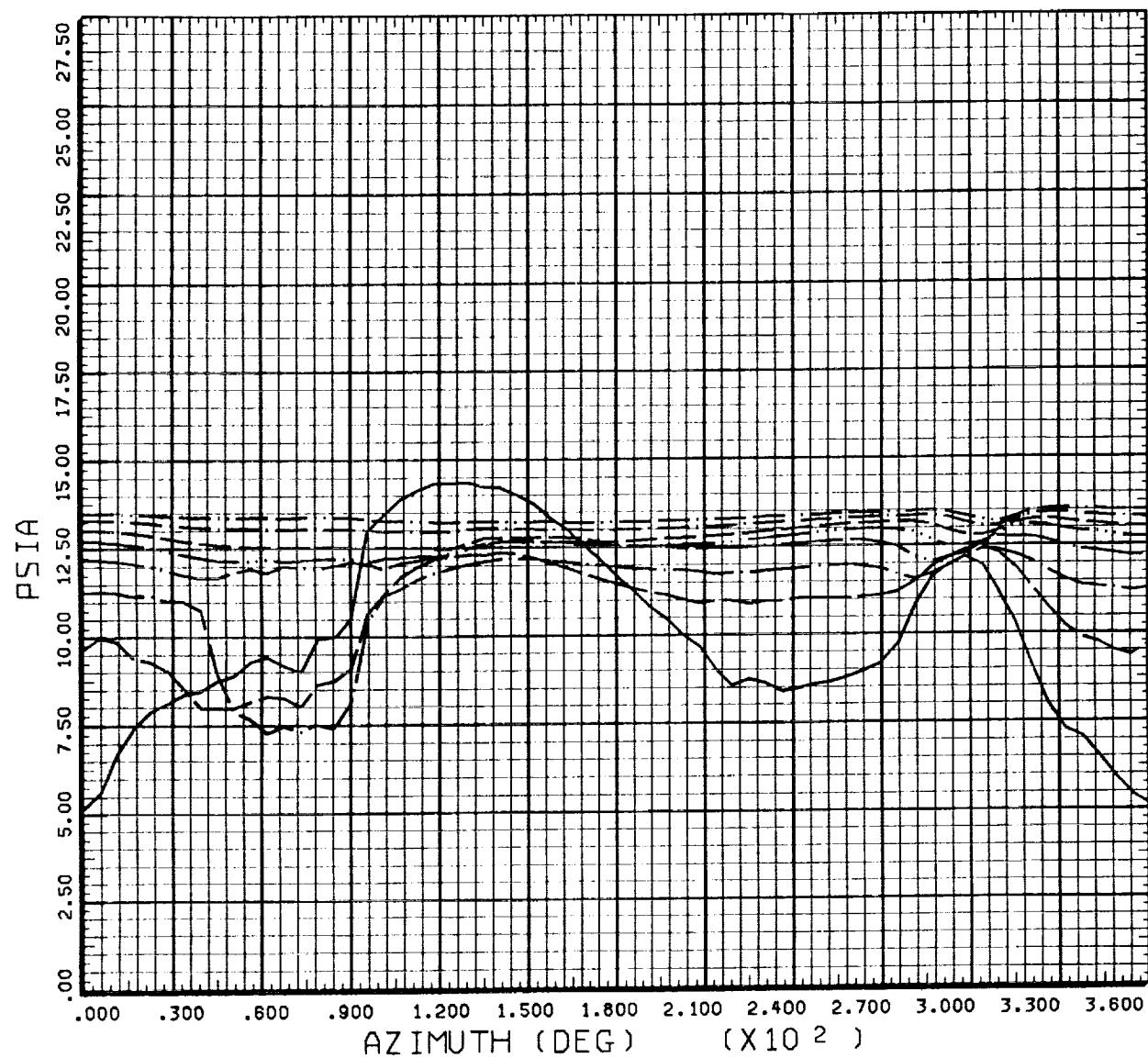
BLADE 2 PRESSURE TAPS AT 0.940 RADIUS

COUNTER 269
.067 X/CHORD

RUN 18
LOWER SURFACE

 .940 R/RADIUS

Figure 205. Blade surface pressure.

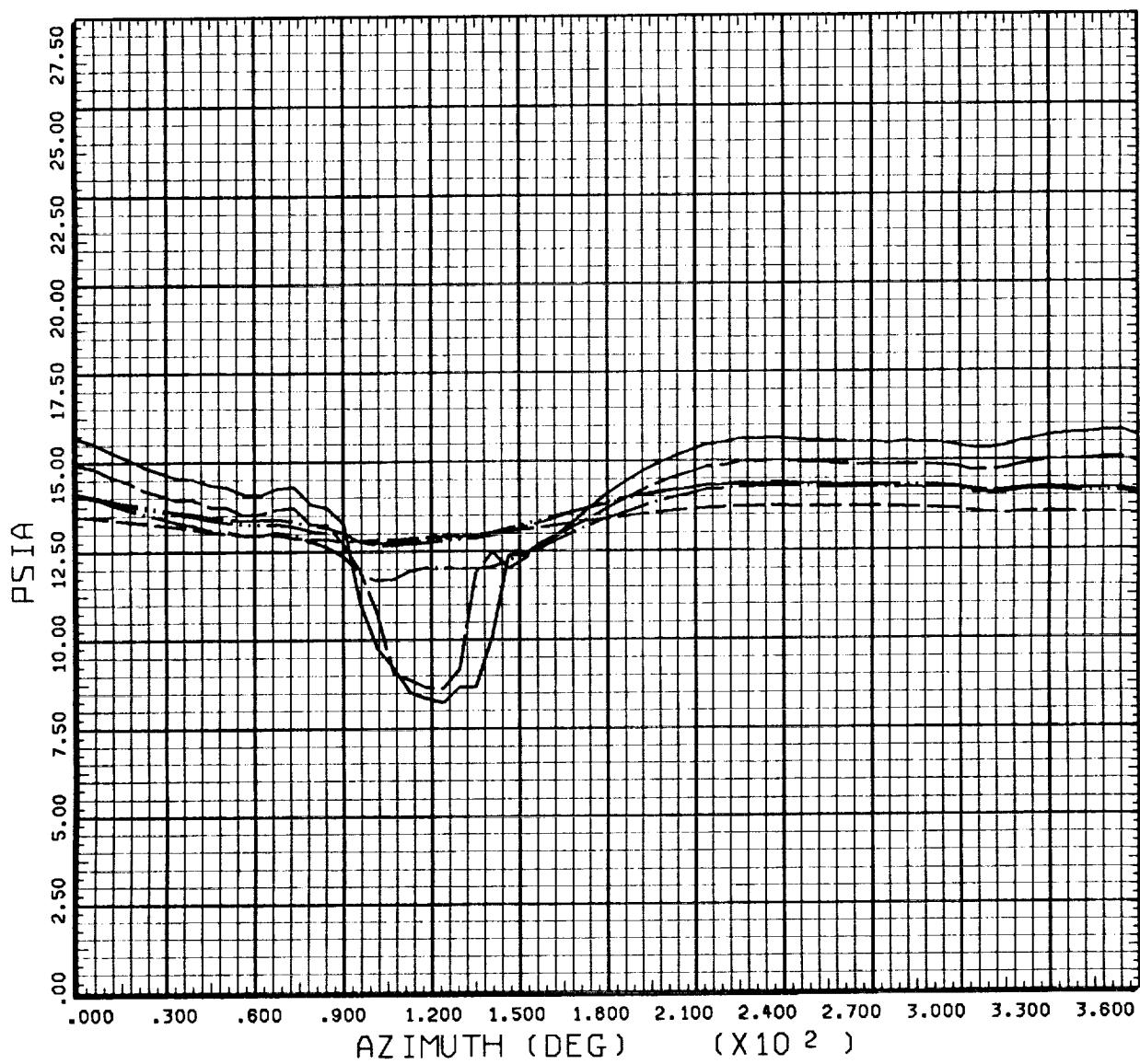


TIME HISTORY:

BLADE 2 PRESSURE TAPS AT 0.96 RADIUS

COUNTER	R/RADIUS		RUN 18
.961	269	UPPER SURFACE	.796 X/CHORD
-----	.036	X/CHORD	
-----	.072	X/CHORD	
-----	.153	X/CHORD	
-----	.250	X/CHORD	
-----	.403	X/CHORD	
-----	.552	X/CHORD	
-----	.700	X/CHORD	

Figure 206. Blade surface pressure.



TIME HISTORY:

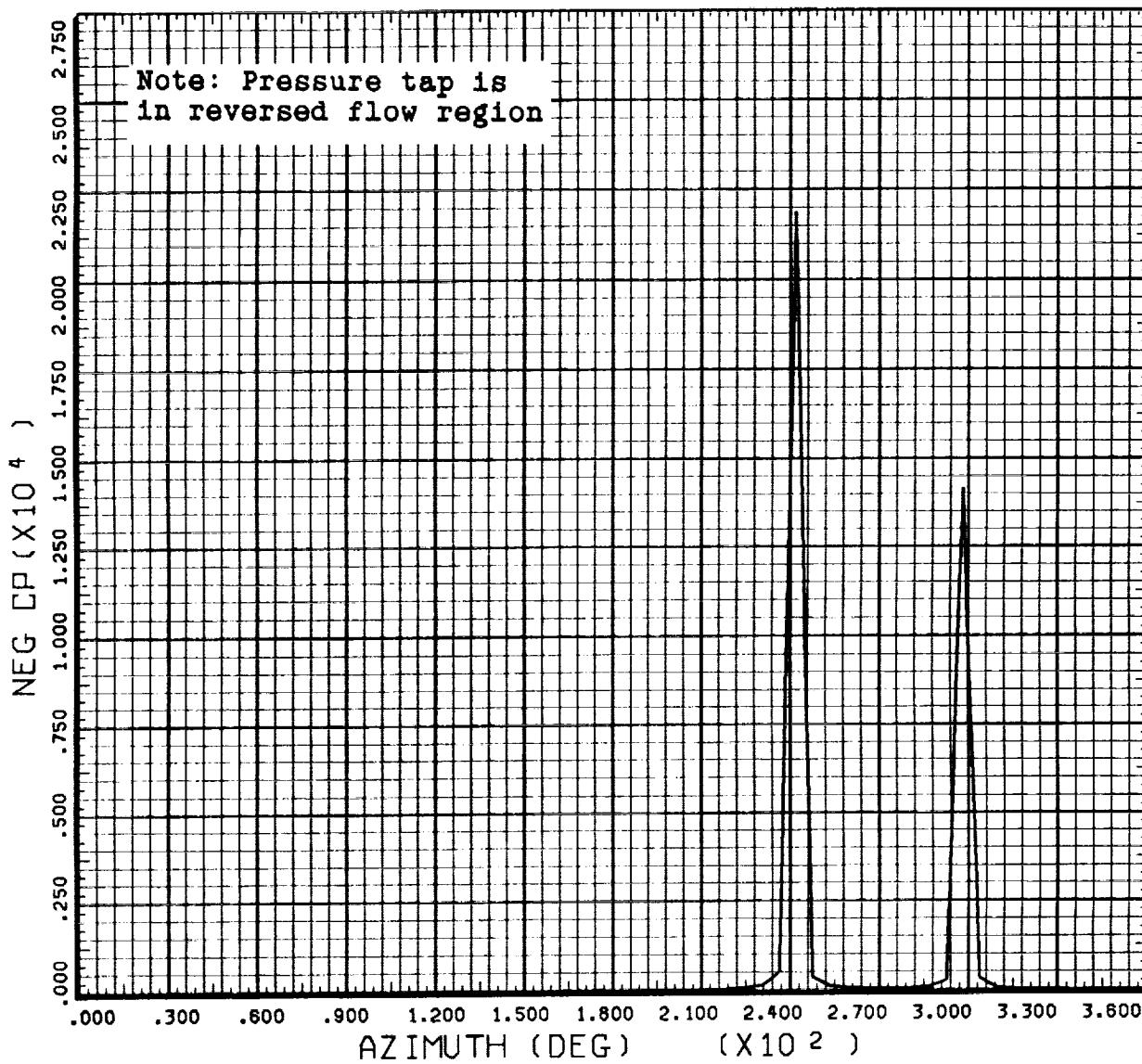
BLADE 2 PRESSURE TAPS AT 0.96 RADIUS

COUNTER 269
.961 R/RADIUS

RUN 18
LOWER SURFACE

-----	.058	X/CHORD
-----	.087	X/CHORD
-----	.203	X/CHORD
-----	.360	X/CHORD
-----	.507	X/CHORD
-----	.816	X/CHORD

Figure 207. Blade surface pressure.



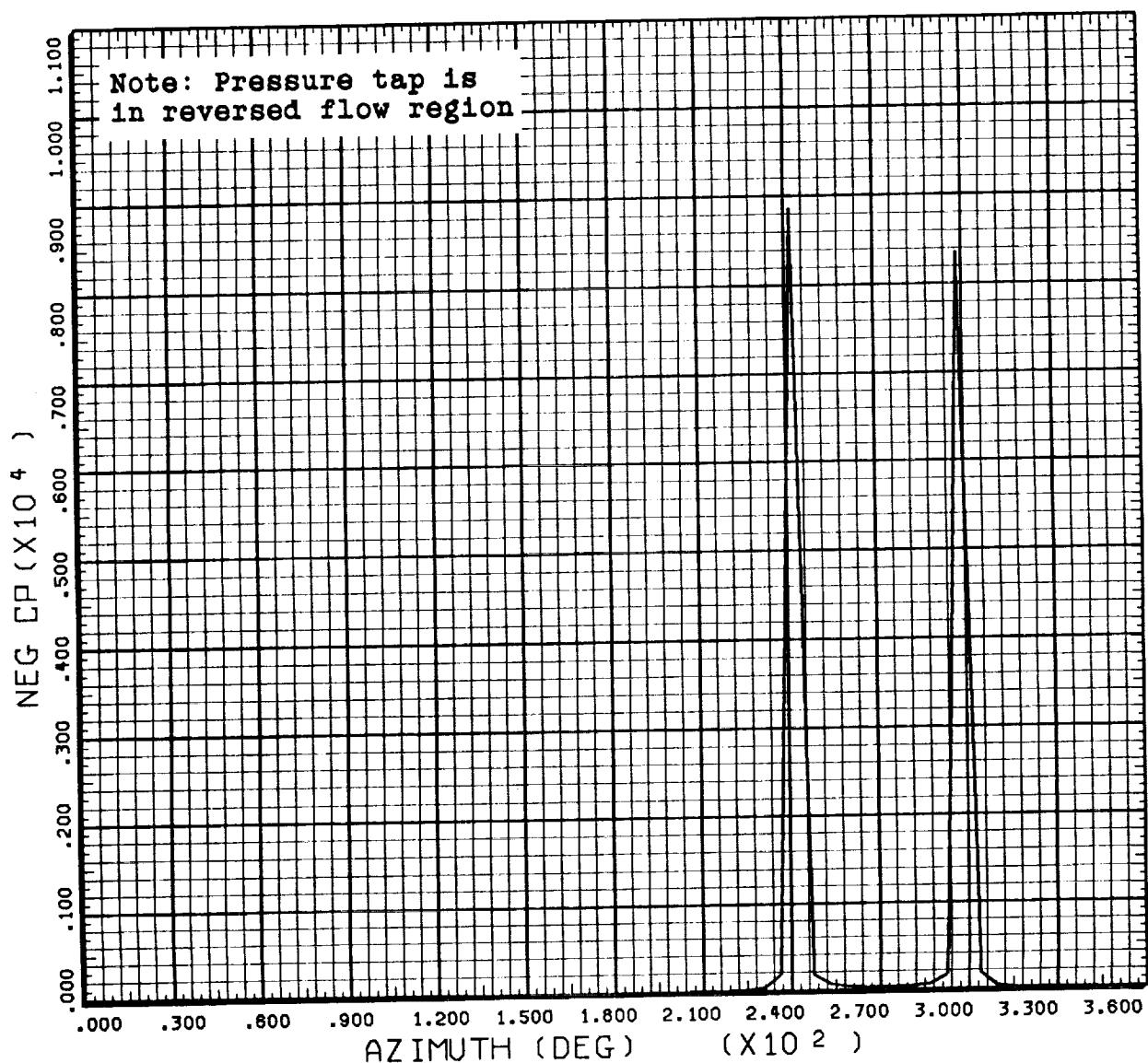
DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER 269
.060 X/CHORD

RUN 18
UPPER SURFACE

.325 R/RADIUS

Figure 208. Blade surface pressure.



DERIVED PARAMETER:

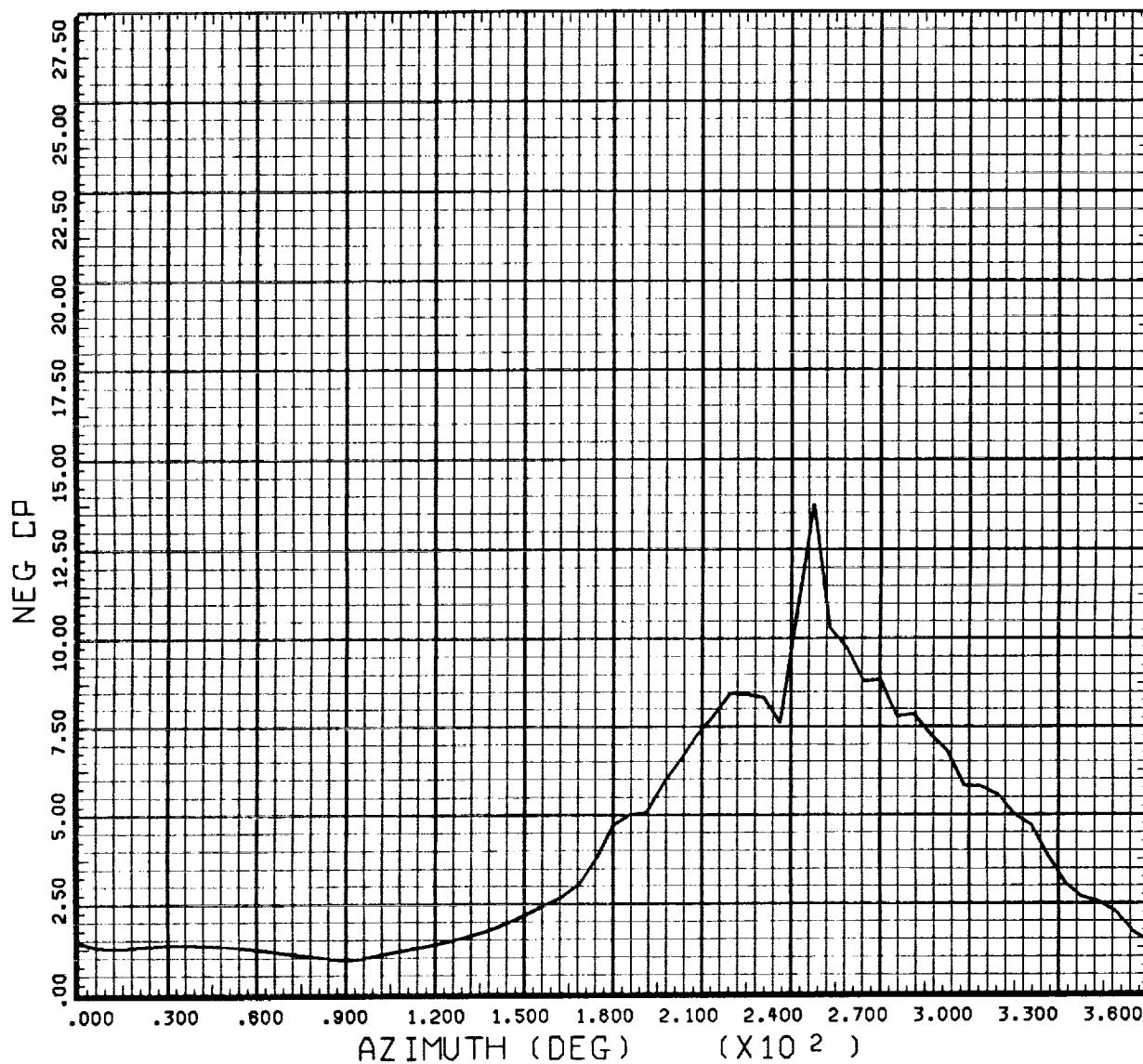
BLADE STATIC PRESSURE COEFF

COUNTER 269
.060 X/CHORD

RUN 18
LOWER SURFACE

 .325 R/RADIUS

Figure 209. Blade pressure coefficient.



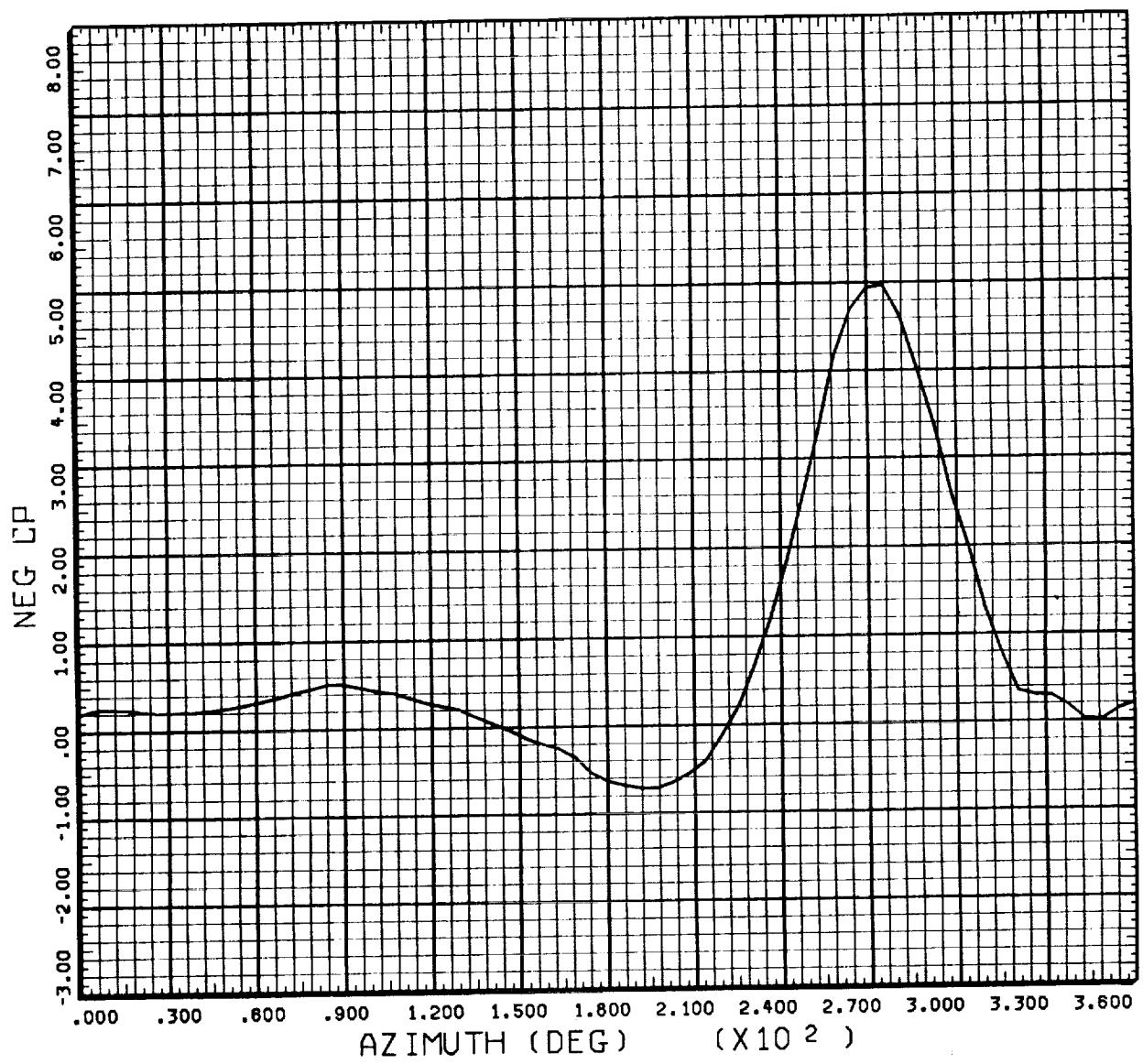
DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER .060 269
X/CHORD

RUN 18
UPPER SURFACE

.500 R/RADIUS

Figure 210. Blade pressure coefficient.



DERIVED PARAMETER:

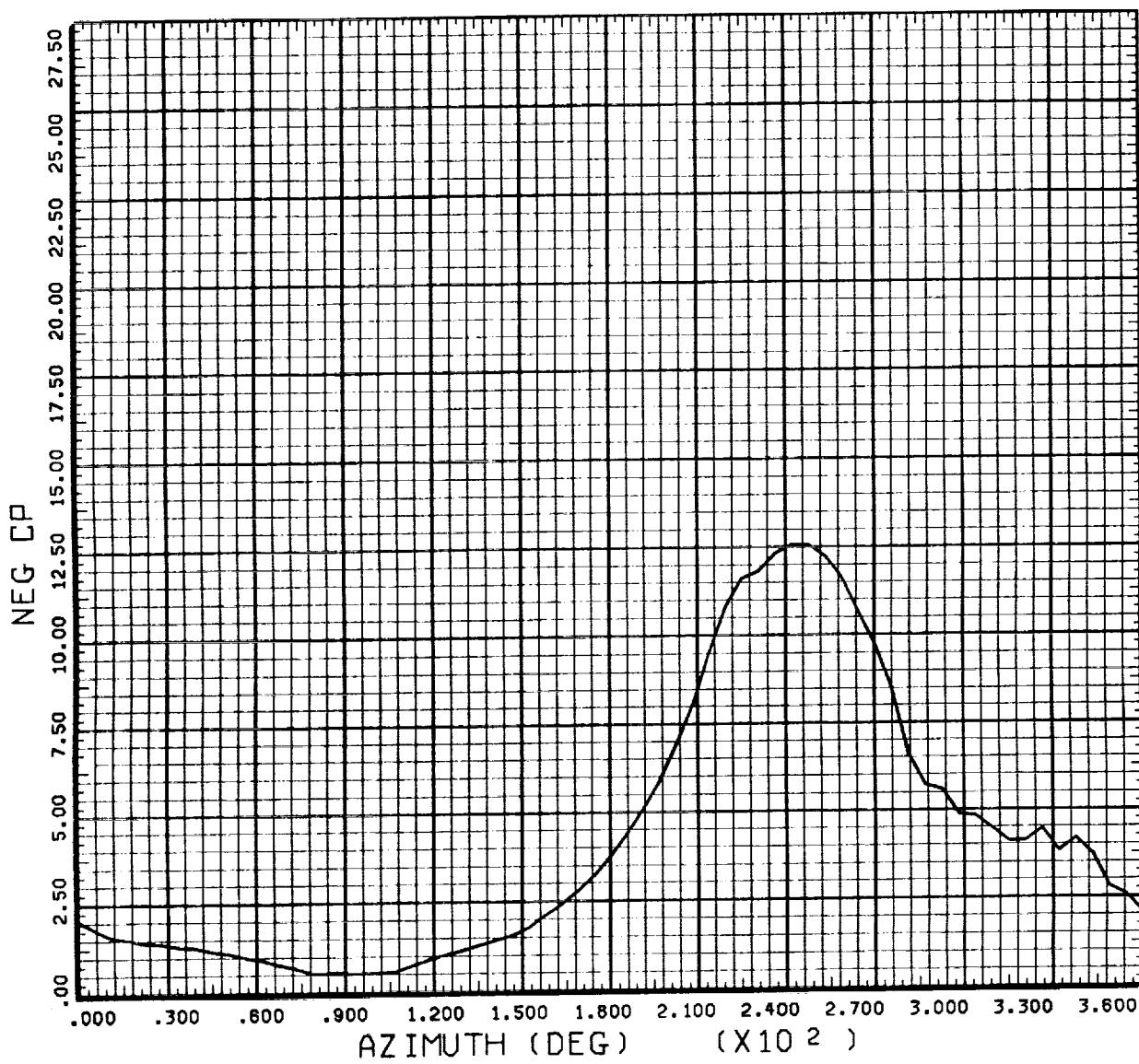
BLADE STATIC PRESSURE COEFF

COUNTER 269
.060 X/CHORD

RUN 18
LOWER SURFACE

— .500 R/RADIUS

Figure 211. Blade pressure coefficient.



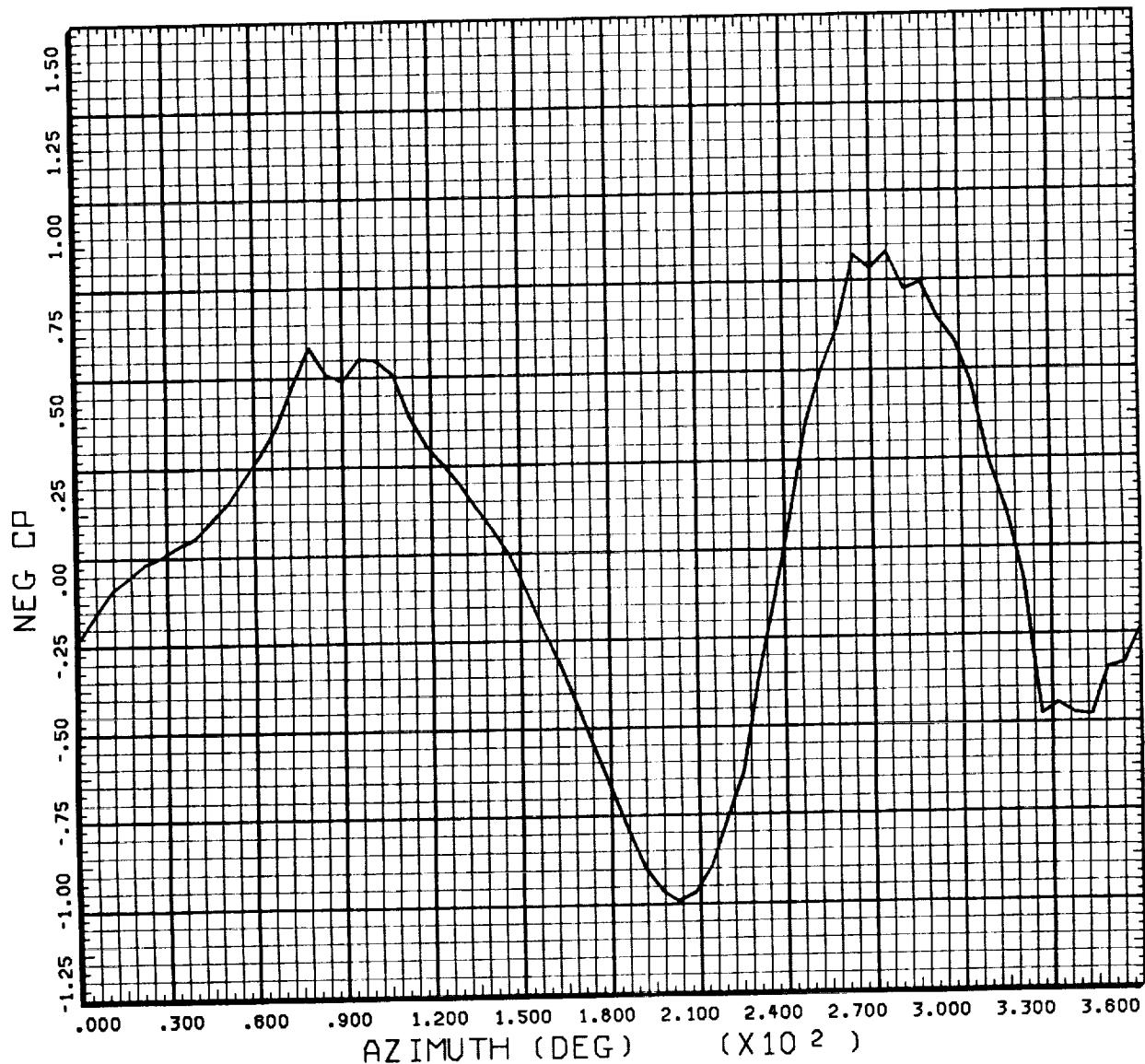
DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER 269
.026 X/CHORD

RUN 18
UPPER SURFACE

— .580 R/RADIUS

Figure 212. Blade pressure coefficient.



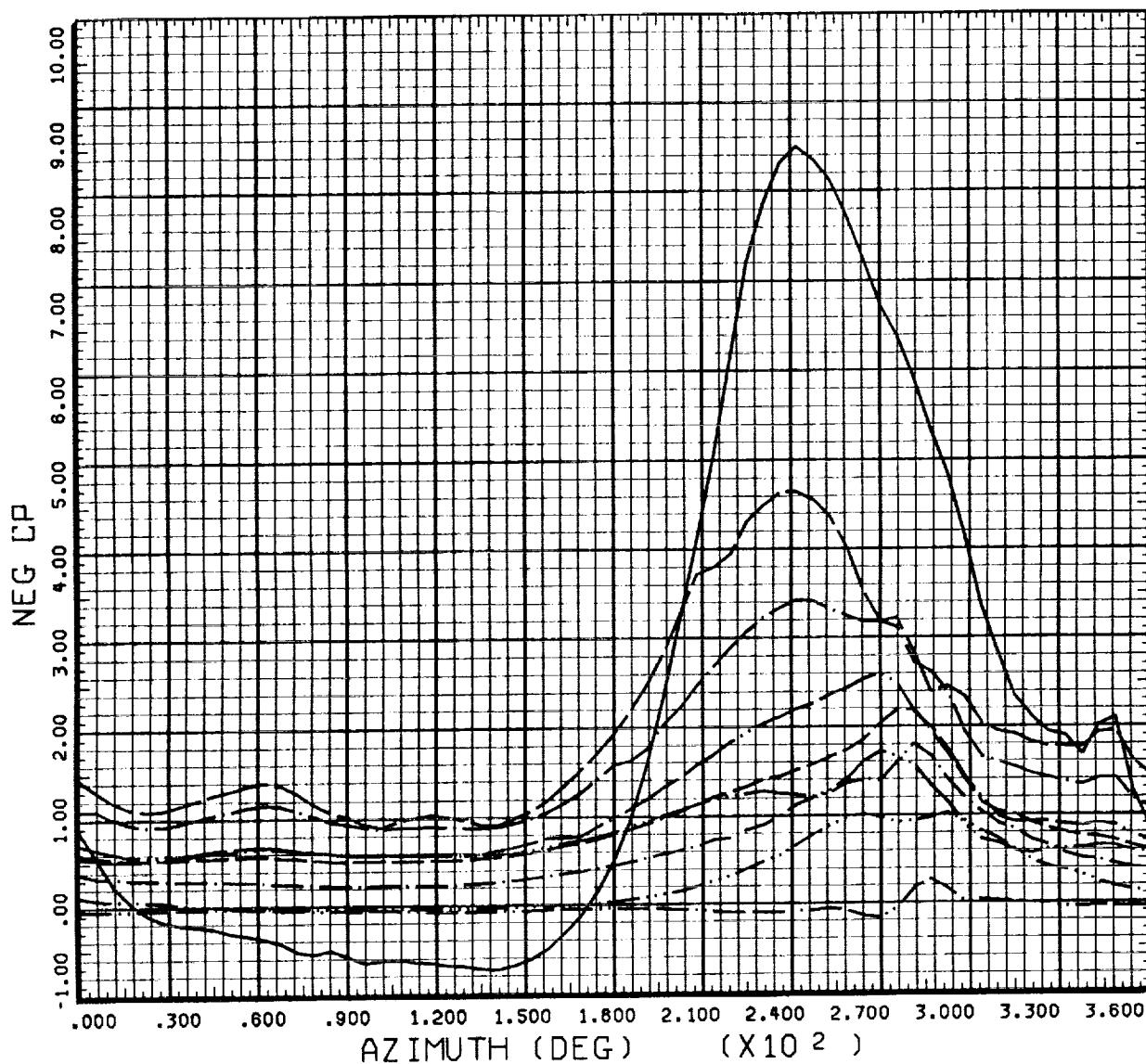
DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER 269
.030 X/CHORD

RUN 18
LOWER SURFACE

— .583 R/RADIUS

Figure 213. Blade pressure coefficient.

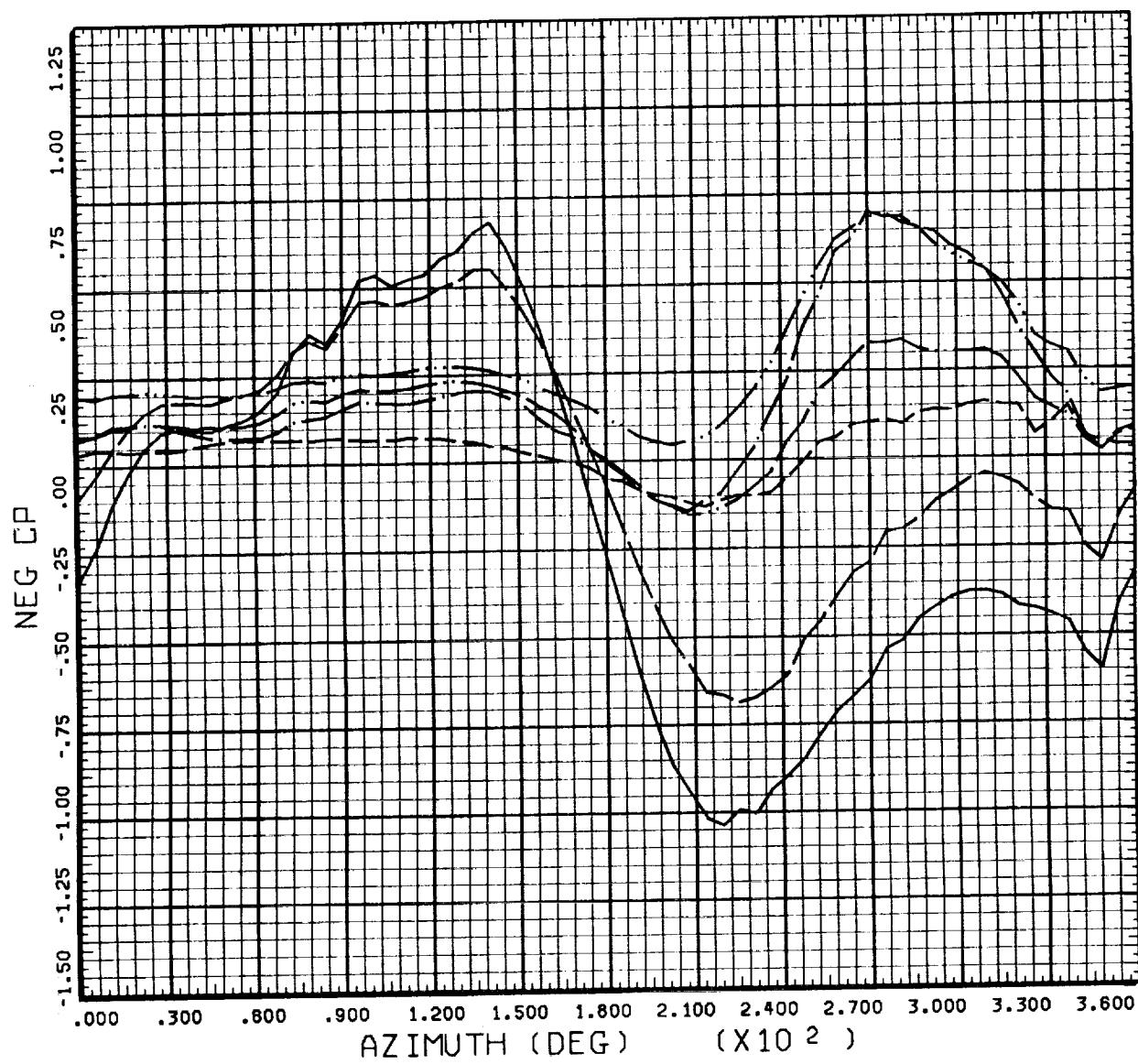


DERIVED PARAMETER:

BLADE STATIC PRESSURE COEFF

COUNTER .685	269 R/RADIUS	.005 X/CHORD	RUN 18 UPPER SURFACE
		.074 X/CHORD	.798 X/CHORD
		.153 X/CHORD	1.000 X/CHORD
		.254 X/CHORD	
		.406 X/CHORD	
		.547 X/CHORD	
		.697 X/CHORD	

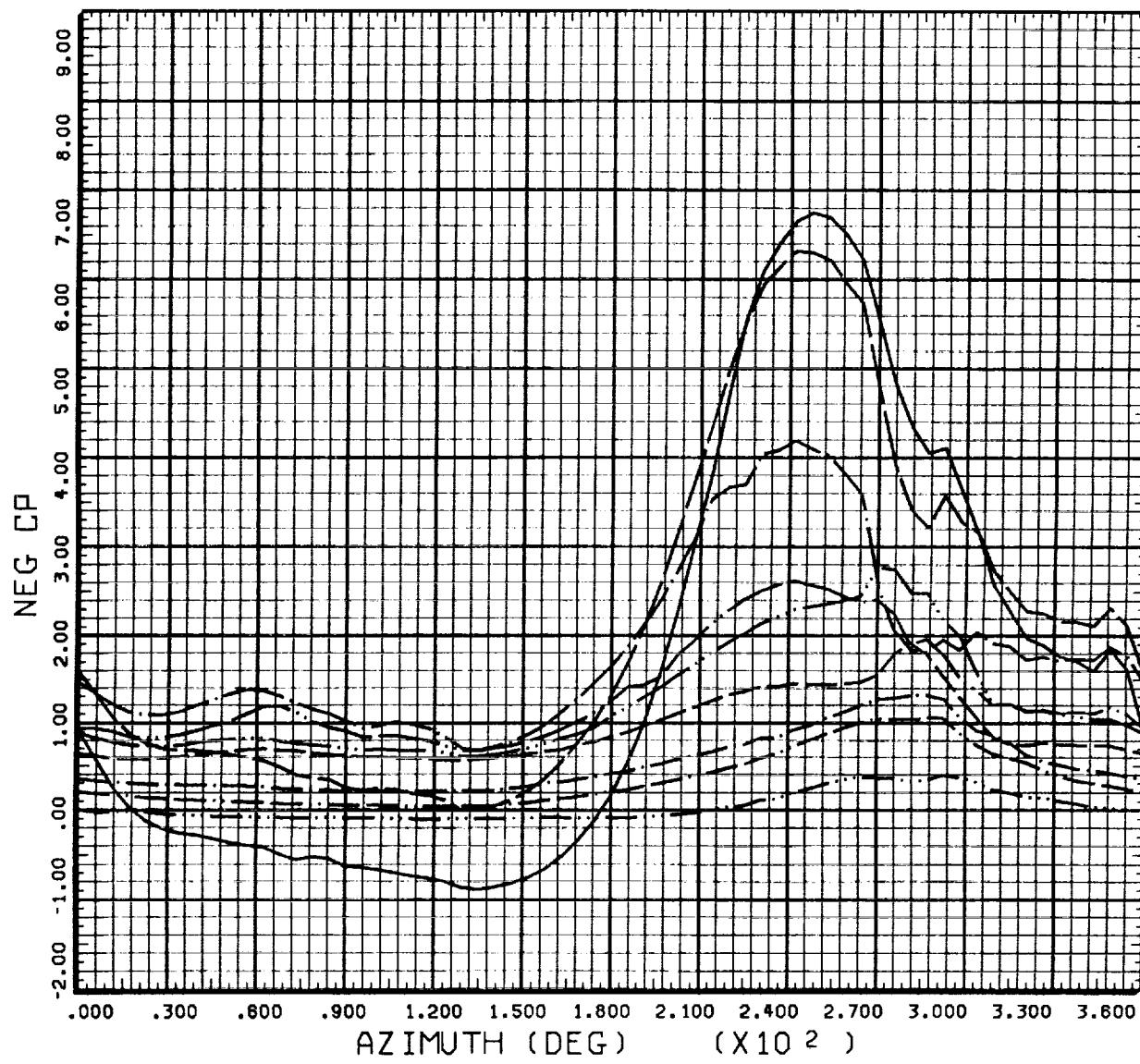
Figure 214. Blade pressure coefficient.



DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER 685	R/RADIUS 269	X/CHORD	RUN 18 LOWER SURFACE
-----	-----	.034 X/CHORD	
-----	-----	.075 X/CHORD	
-----	-----	.207 X/CHORD	
-----	-----	.366 X/CHORD	
-----	-----	.500 X/CHORD	
-----	-----	.817 X/CHORD	

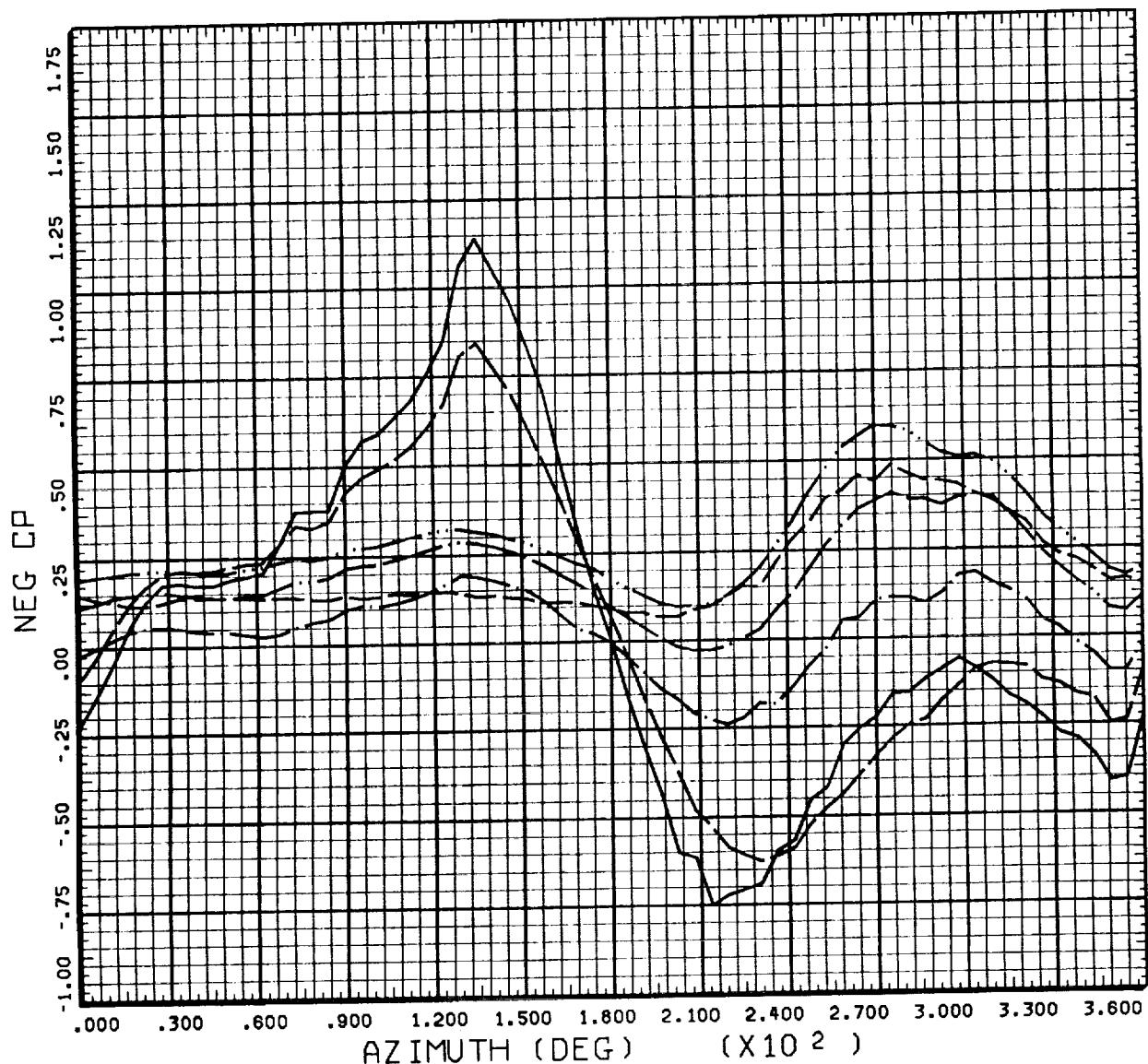
Figure 215. Blade pressure coefficient.



DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER .730	269 R/RADIUS		RUN 18
	.005	X/CHORD	----- .798 X/CHORD
	.026	X/CHORD	----- 1.000 X/CHORD
	.074	X/CHORD	
	.159	X/CHORD	
	.257	X/CHORD	
	.406	X/CHORD	
	.699	X/CHORD	

Figure 216. Blade pressure coefficient.

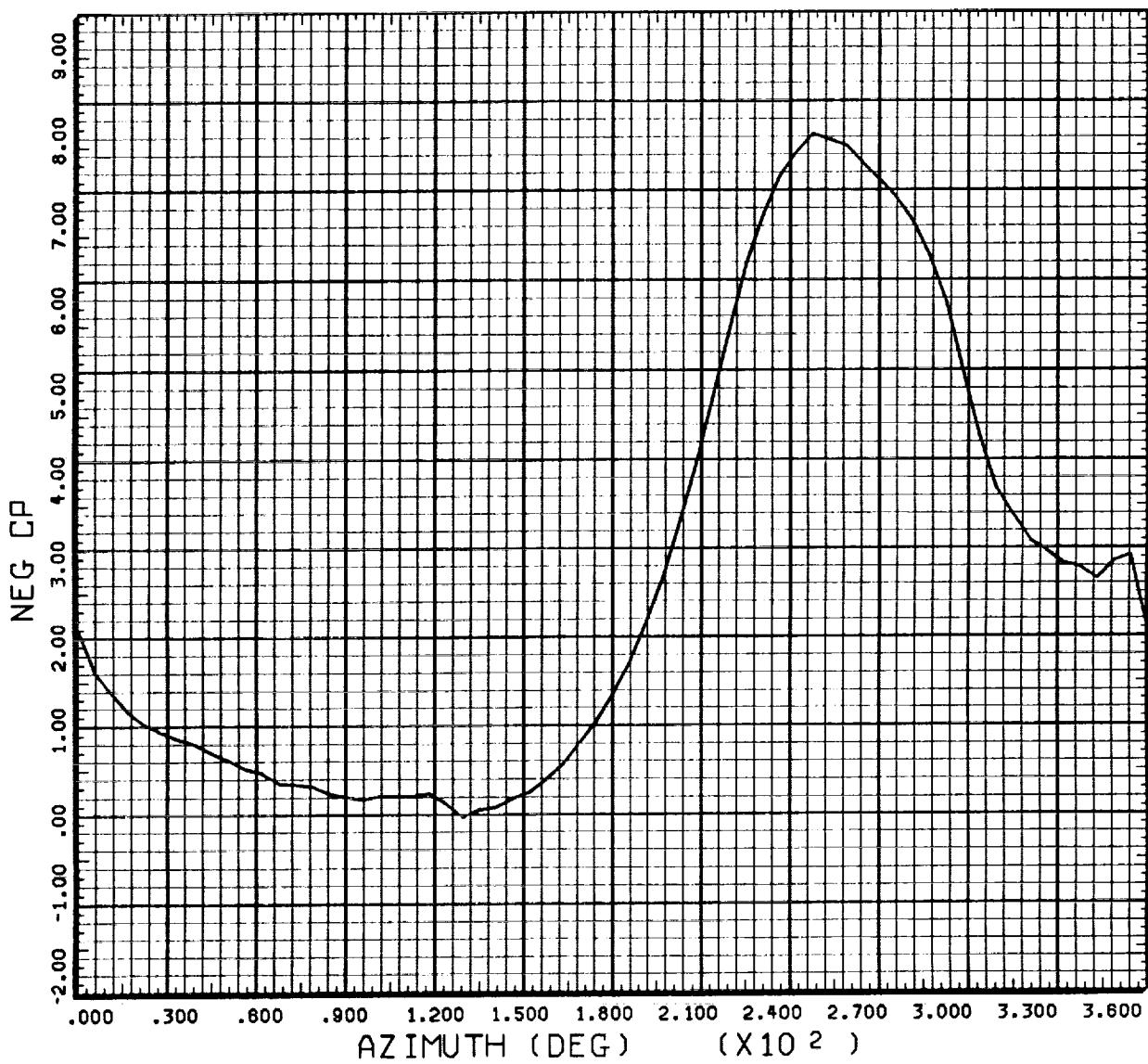


DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER	R/RADIUS	X/CHORD
.730	269	
.....034 X/CHORD
.....075 X/CHORD
.....207 X/CHORD
.....363 X/CHORD
.....500 X/CHORD
.....817 X/CHORD

RUN 18
LOWER SURFACE

Figure 217. Blade pressure coefficient.



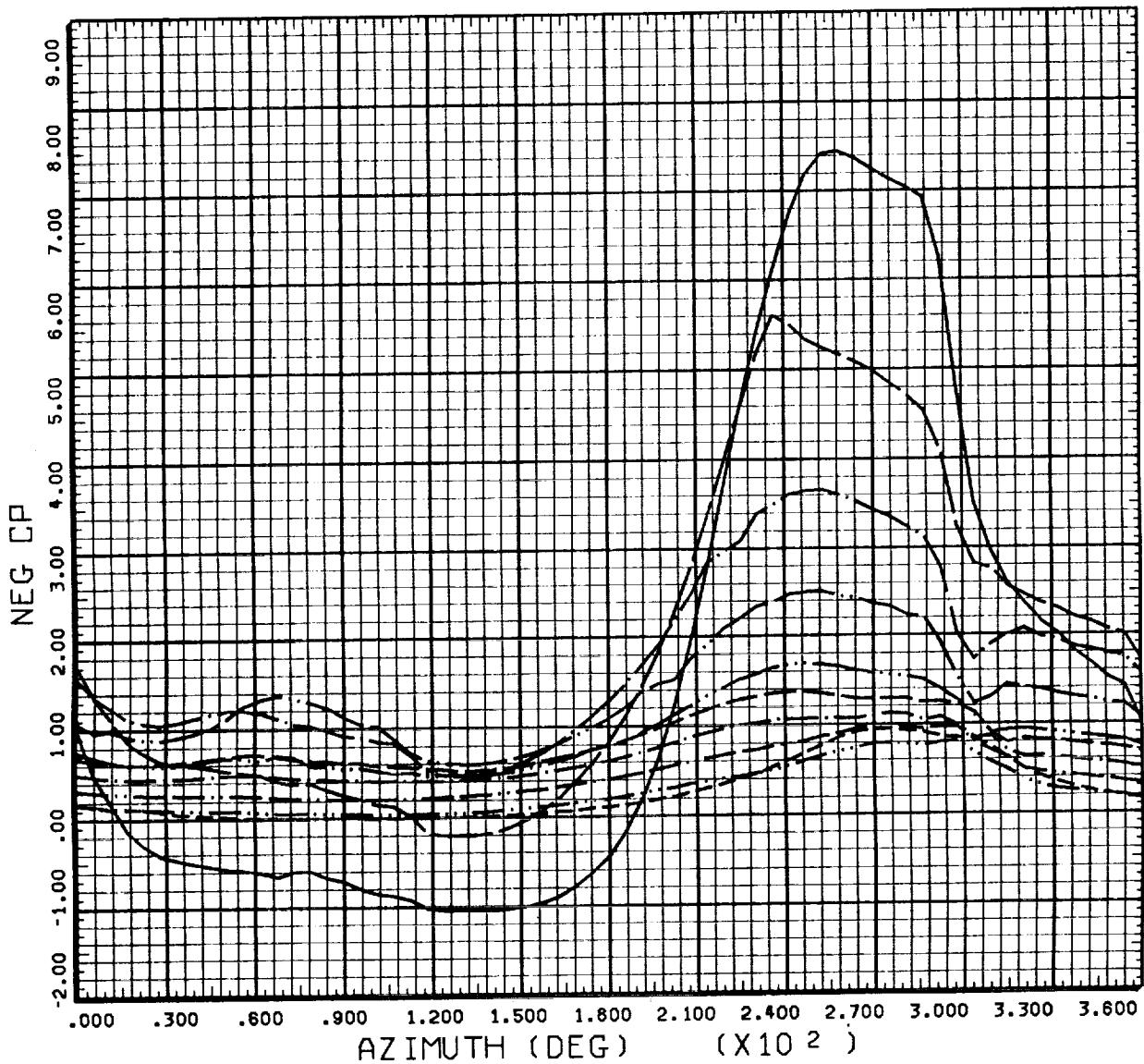
DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER 269
.026 X/CHORD

RUN 18
UPPER SURFACE

— .750 R/RADIUS

Figure 218. Blade pressure coefficient.



DERIVED PARAMETER:

BLADE STATIC PRESSURE COEFF

COUNTER .806	269 R/RADIUS	
-----	.001	X/CHORD
-----	.025	X/CHORD
-----	.075	X/CHORD
-----	.161	X/CHORD
-----	.262	X/CHORD
-----	.405	X/CHORD
-----	.555	X/CHORD

RUN 18	
-----	-----
-----	-----
-----	-----

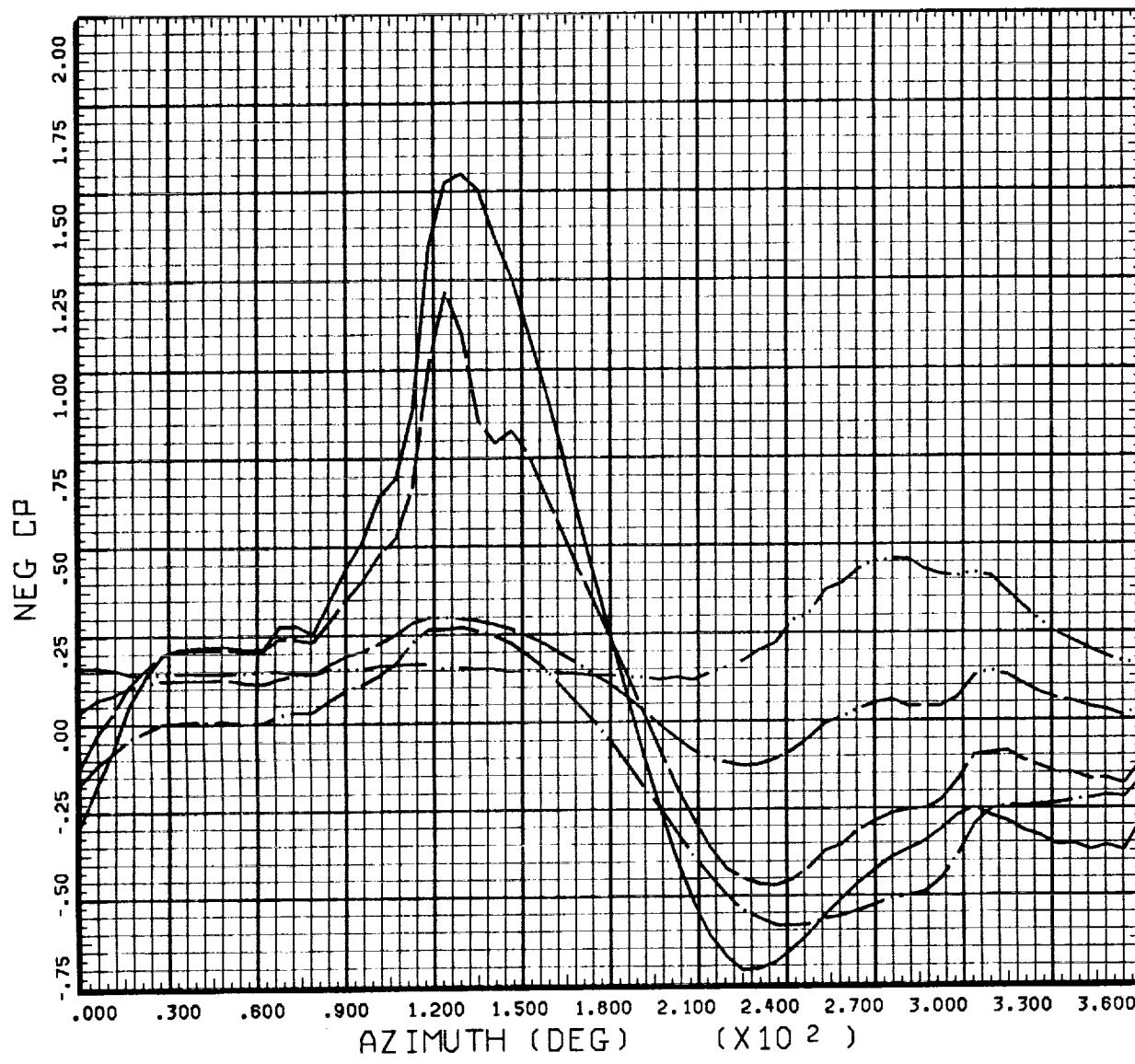
UPPER SURFACE

----- .698 X/CHORD

----- .798 X/CHORD

----- 1.000 X/CHORD

Figure 219. Blade pressure coefficient.



DERIVED PARAMETER:

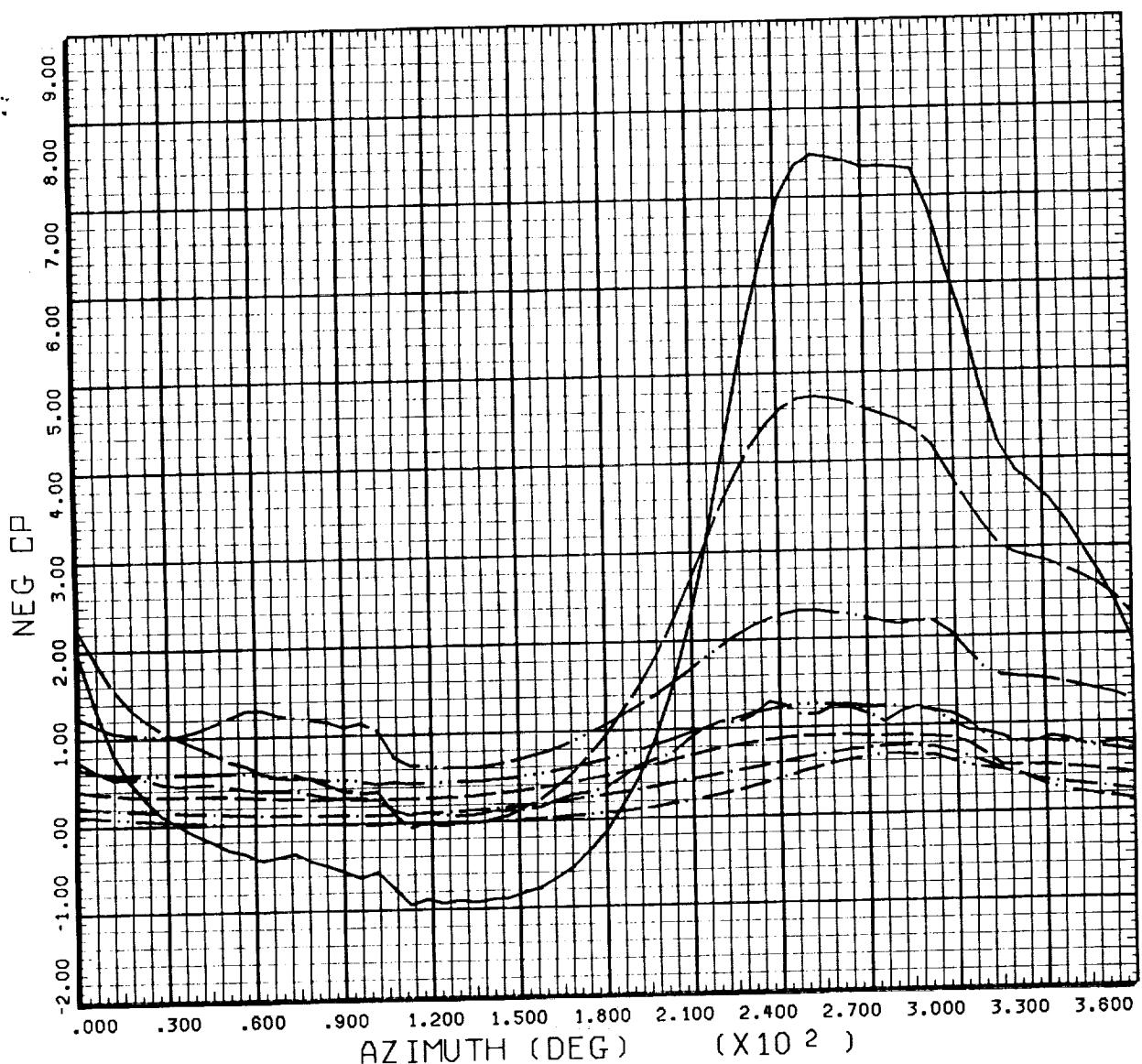
COUNTER 269
.806 R/RADIUS

BLADE STATIC PRESSURE COEFF

RUN 18
LOWER SURFACE

-----	.034	X/CHORD
-----	.075	X/CHORD
-----	.207	X/CHORD
-----	.366	X/CHORD
-----	.818	X/CHORD

Figure 220. Blade pressure coefficient.



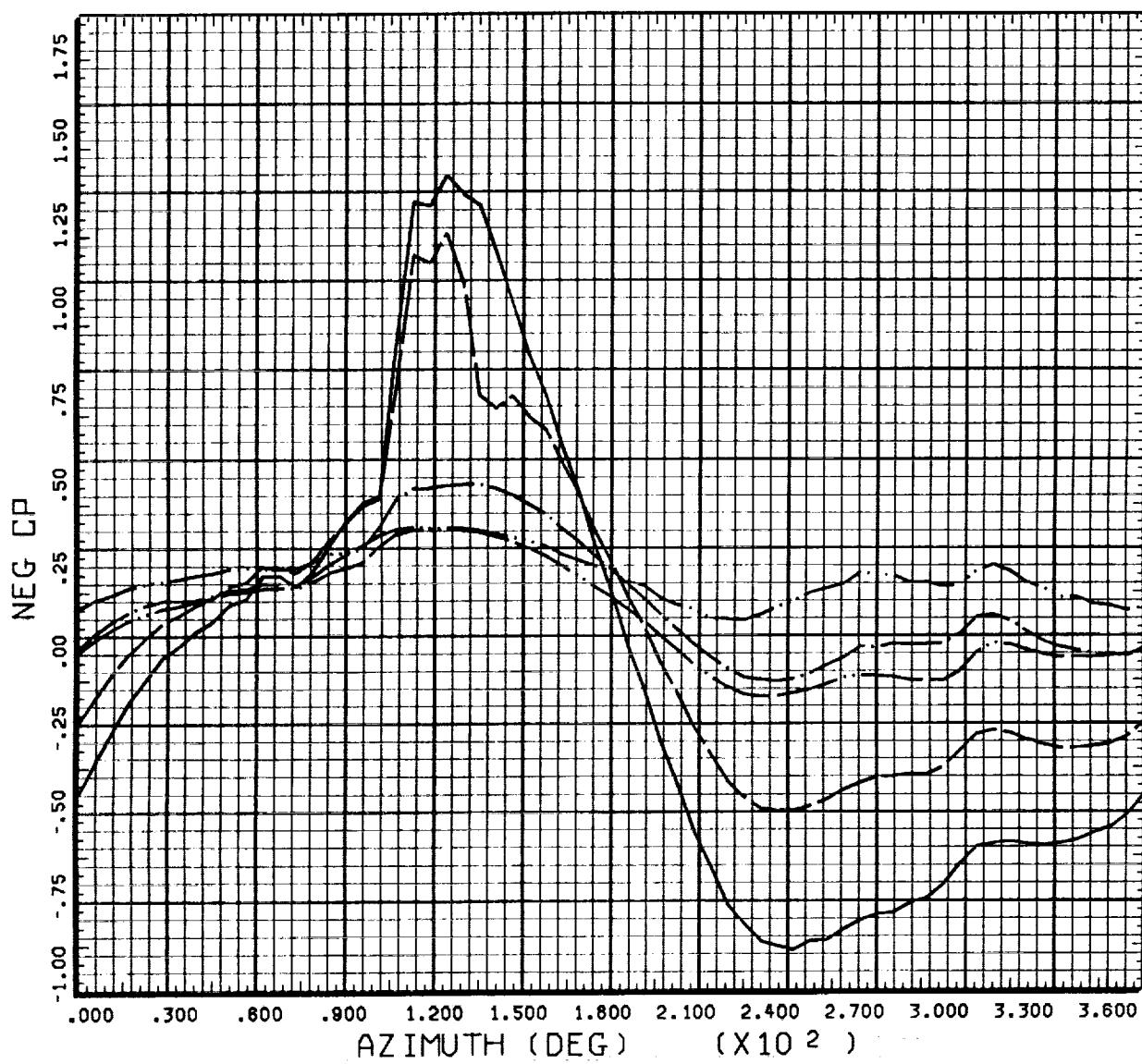
DERIVED PARAMETER:

COUNTER	R/RADIUS	
.866	269	
		.002 X/CHORD
		.027 X/CHORD
		.067 X/CHORD
		.153 X/CHORD
		.400 X/CHORD
		.555 X/CHORD
		.797 X/CHORD

BLADE STATIC PRESSURE COEFF

RUN 18
UPPER SURFACE
1.000 X/CHORD

Figure 221. Blade pressure coefficient.



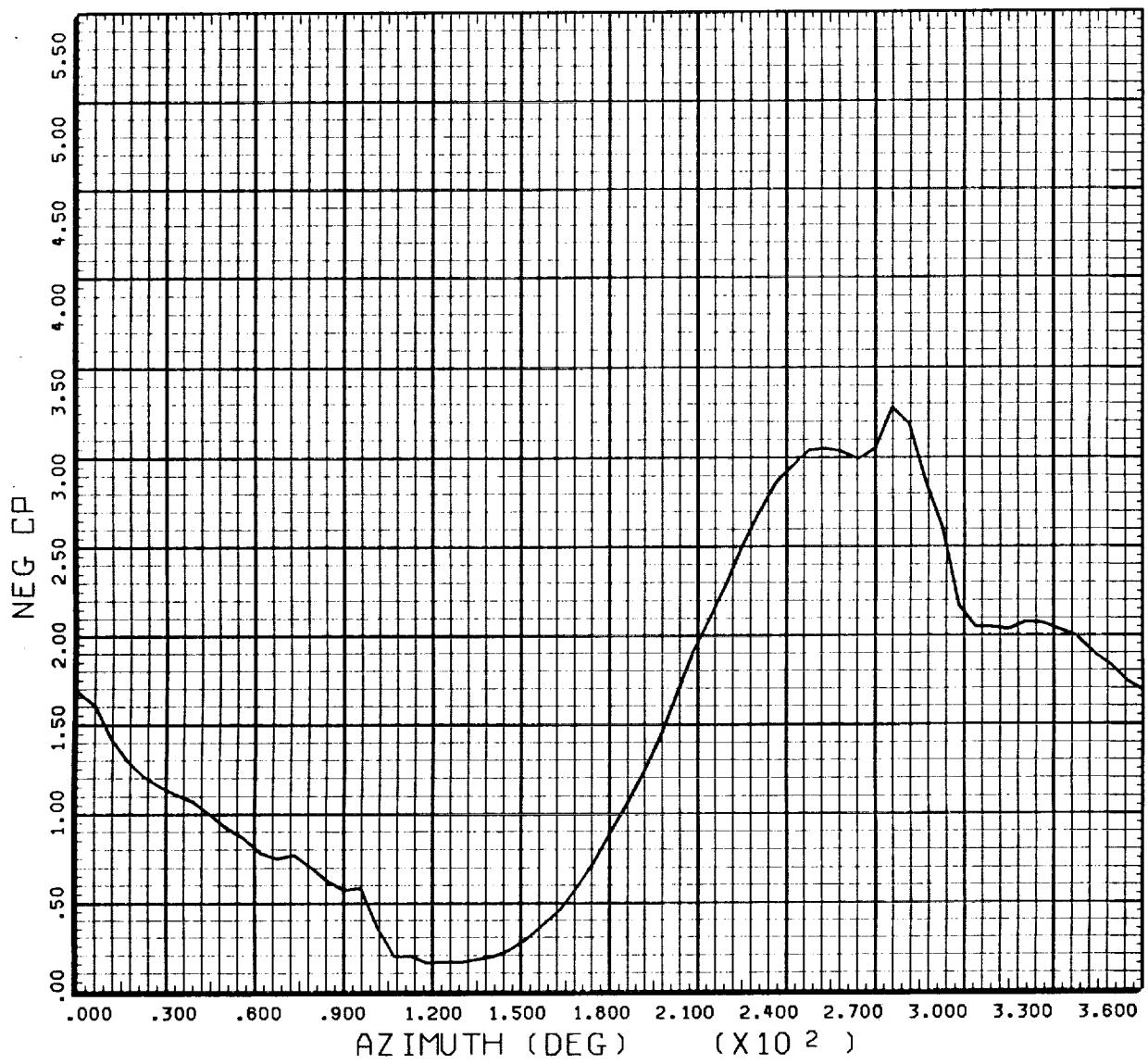
DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER 269
.866 R/RADIUS

RUN 18
LOWER SURFACE

.....	.040	X/CHORD
.....	.070	X/CHORD
.....	.208	X/CHORD
.....	.354	X/CHORD
.....	.504	X/CHORD

Figure 222. Blade pressure coefficient.



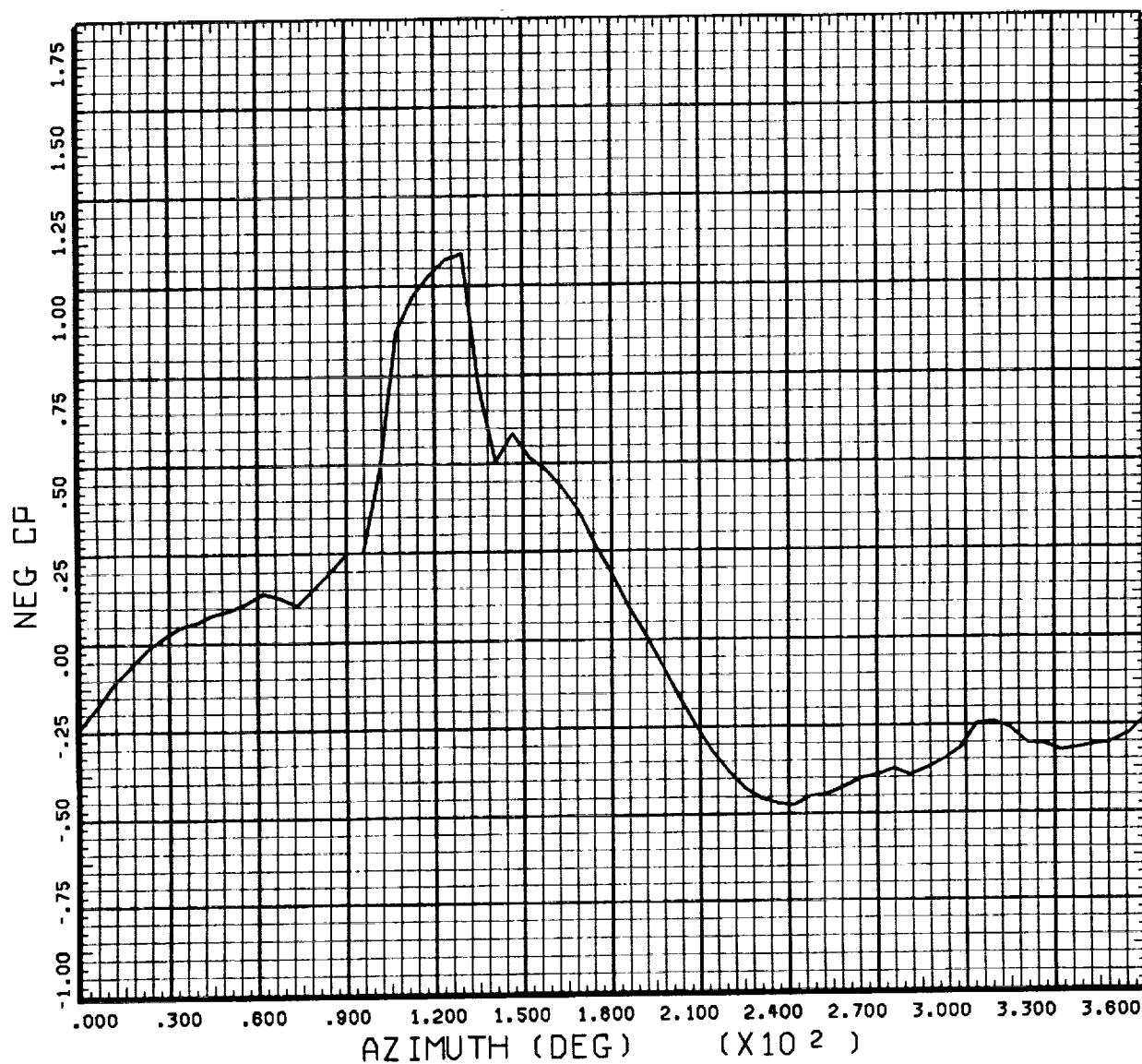
DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER 269
.052 X/CHORD

RUN 18
UPPER SURFACE

— .903 R/RADIUS

Figure 223. Blade pressure coefficient.



DERIVED PARAMETER:

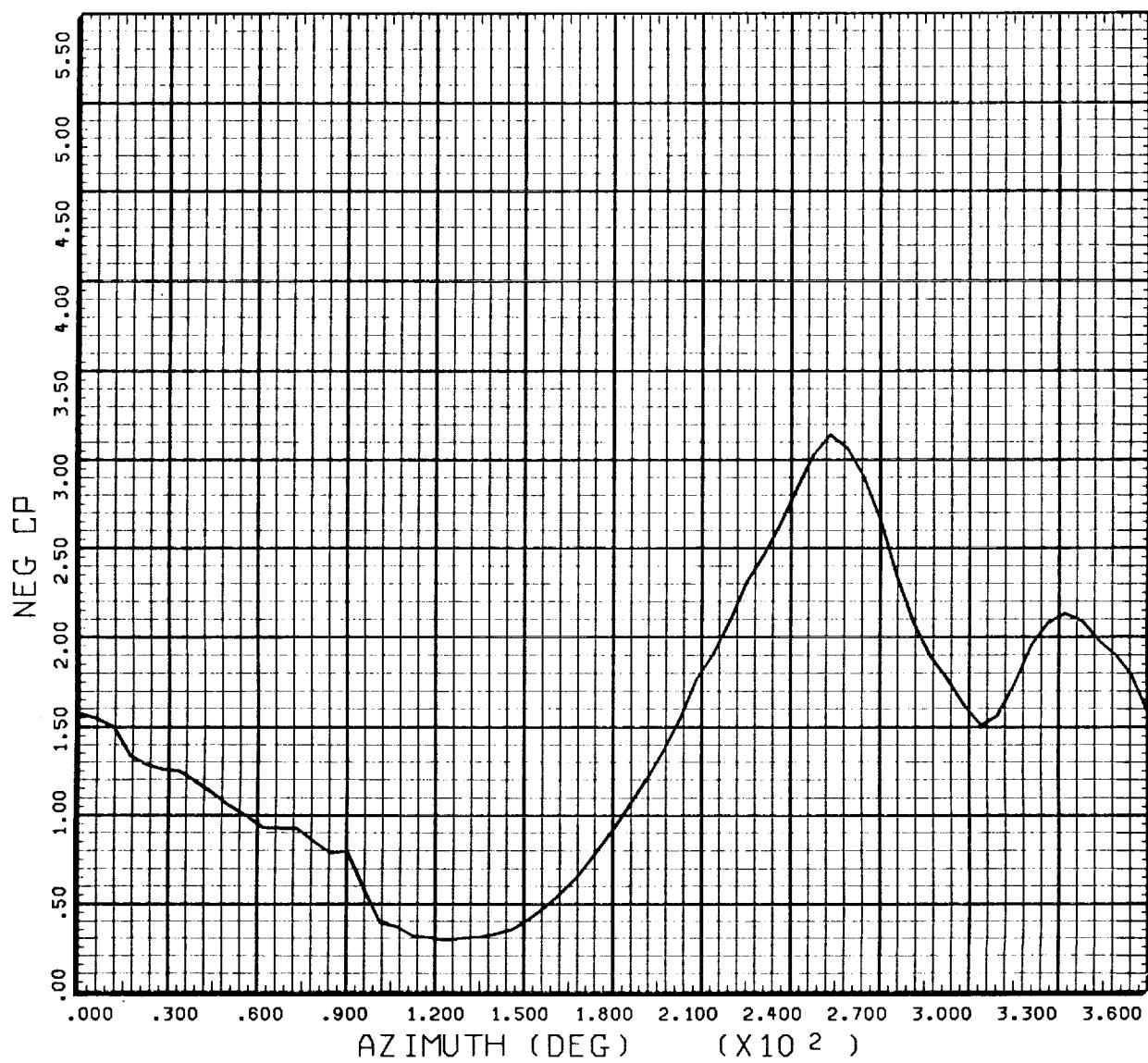
BLADE STATIC PRESSURE COEFF

COUNTER 269
.067 X/CHORD

RUN 18
LOWER SURFACE

— .903 R/RADIUS

Figure 224. Blade pressure coefficient.



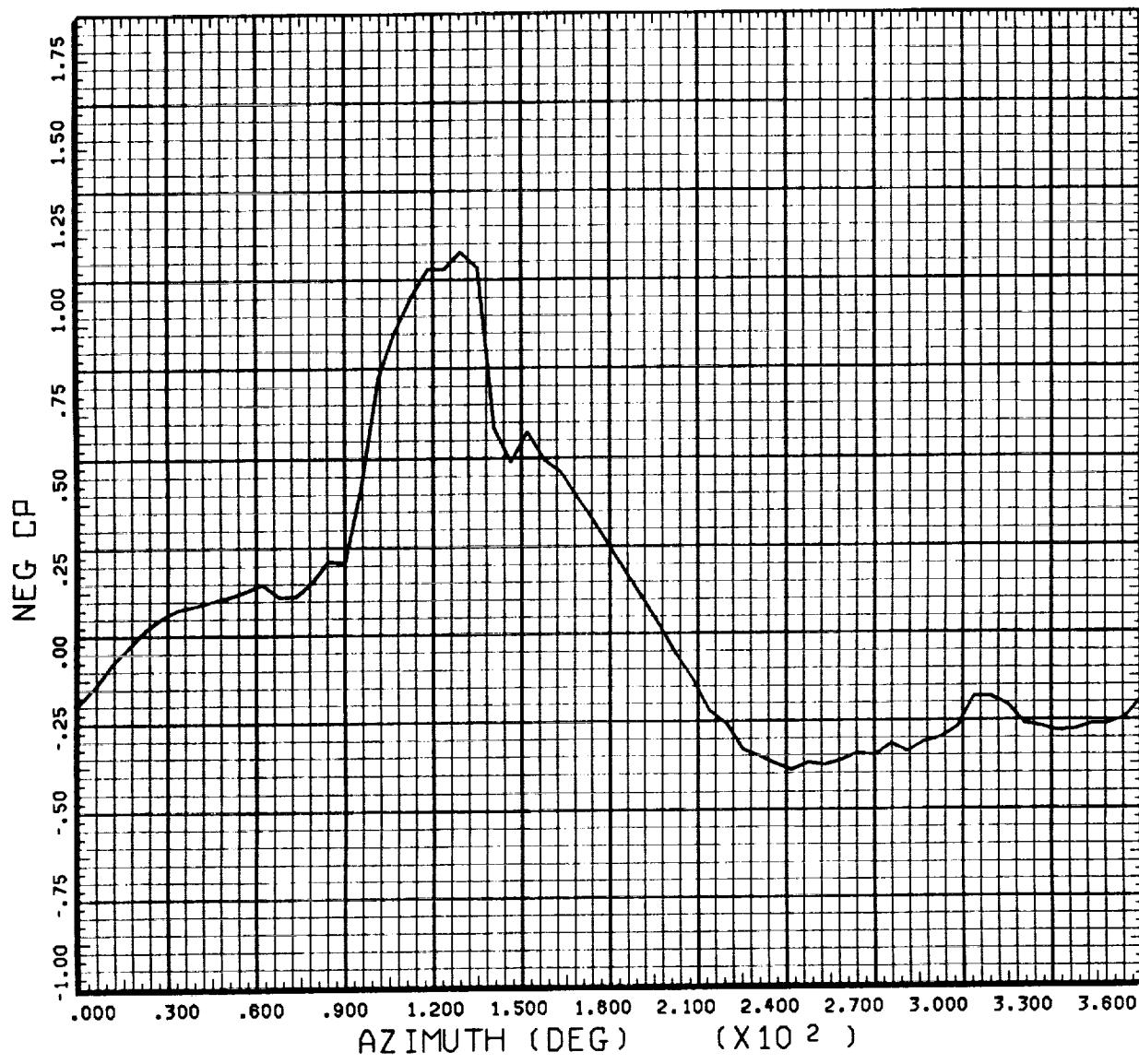
DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER 269
.052 X/CHORD

RUN 18
UPPER SURFACE

— .940 R/RADIUS

Figure 225. Blade pressure coefficient.



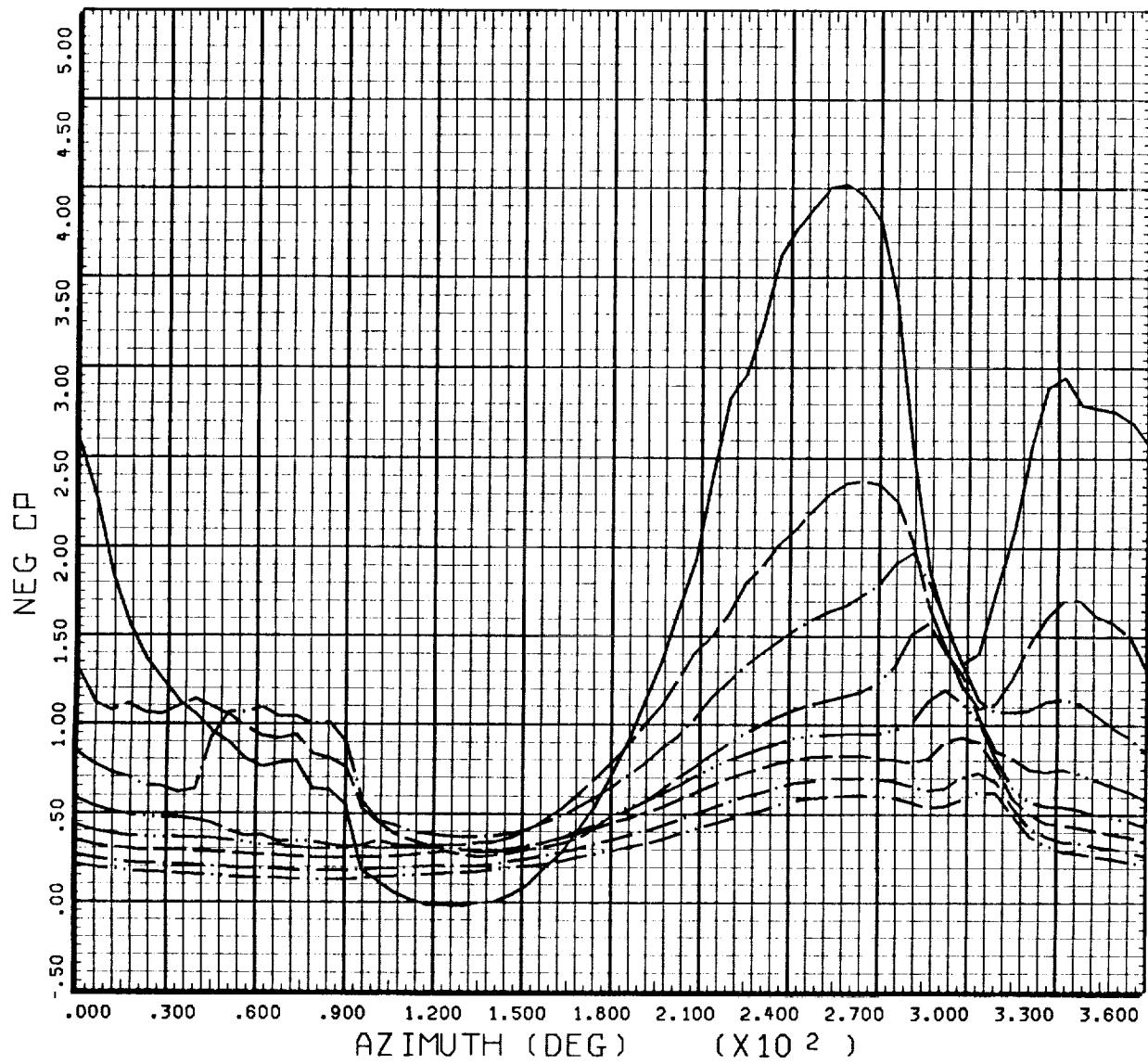
DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER 269
.067 X/CHORD

RUN 18
LOWER SURFACE

.940 R/RADIUS

Figure 226. Blade pressure coefficient.



DERIVED PARAMETER:

COUNTER 269
.961 R/RADIUS

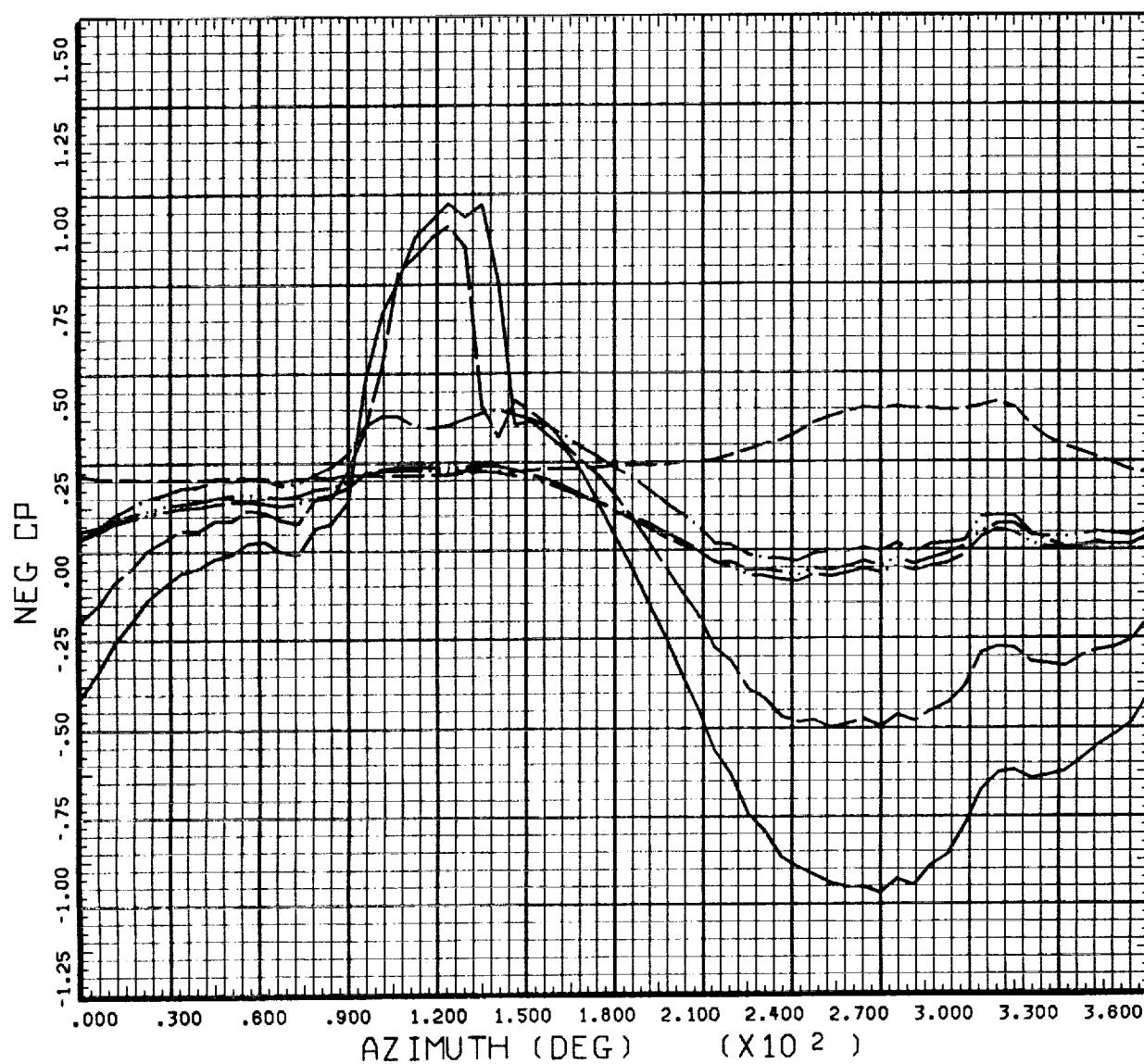
BLADE STATIC PRESSURE COEFF

RUN 18

UPPER SURFACE .796 X/CHORD

-----	.036	X/CHORD
-----	.072	X/CHORD
-----	.153	X/CHORD
-----	.250	X/CHORD
-----	.403	X/CHORD
-----	.552	X/CHORD
-----	.700	X/CHORD

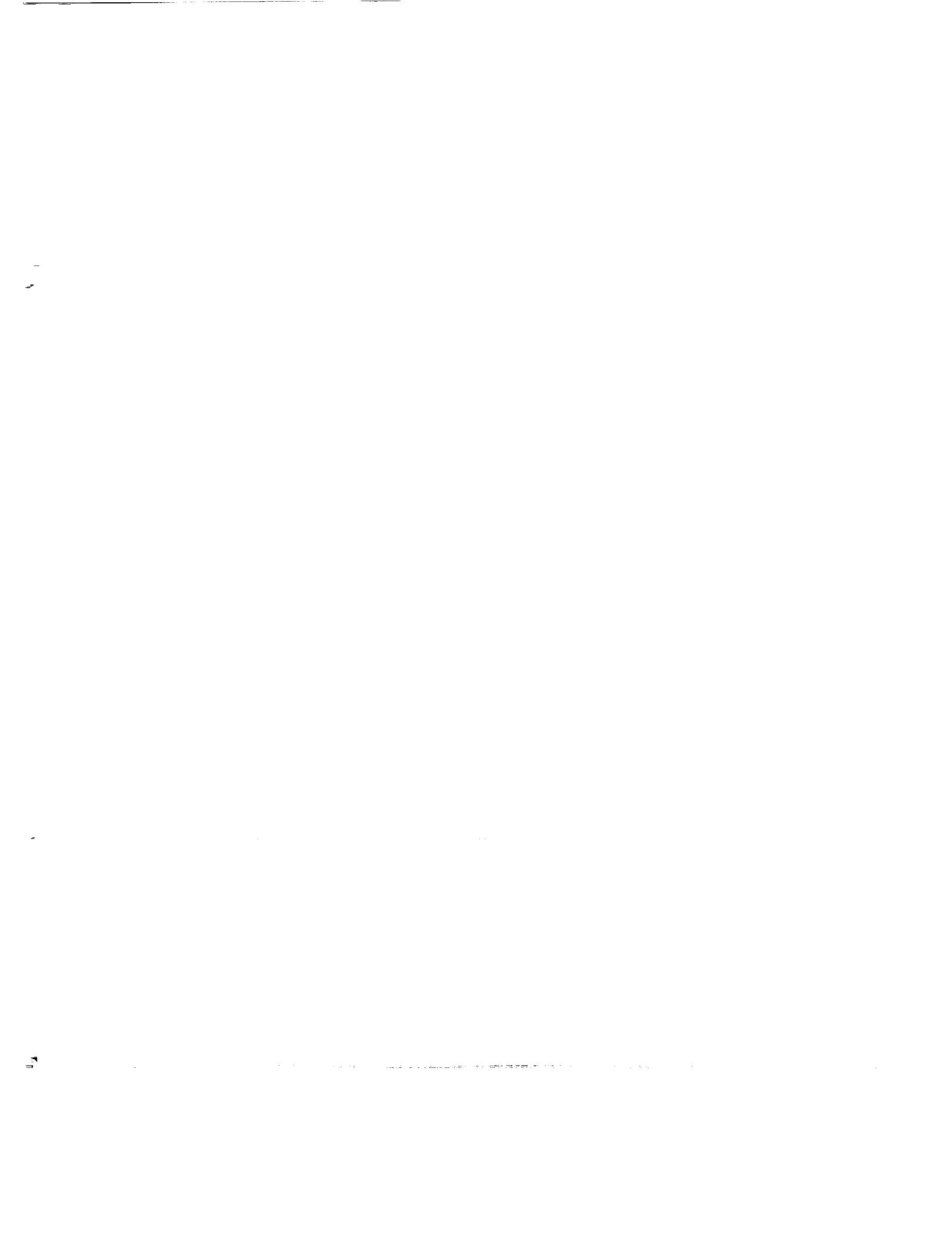
Figure 227. Blade pressure coefficient.



DERIVED PARAMETER: BLADE STATIC PRESSURE COEFF

COUNTER .961	R/RADIUS 269	X/CHORD	RUN 18 LOWER SURFACE
-----	.058	X/CHORD	
-----	.087	X/CHORD	
-----	.203	X/CHORD	
-----	.360	X/CHORD	
-----	.507	X/CHORD	
-----	.816	X/CHORD	

Figure 228. Blade pressure coefficient.



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<p>An Advanced Lightweight Rotor (LAR) model was tested in high speed forward flight, $\mu = 0.37$, at the 14- by 22-Foot Subsonic Tunnel at the NASA Langley Research Center. The pressure instrumented rotor, provided by Bell Helicopter, was a four-bladed, Mach-scaled, bearingless, soft-in-plane design. Rotor performance data was acquired from Bell's Powered Force Model (PFM) test stand, and the blade airfoils were obtained using 92 unsteady pressure transducers. A two-component laser velocimeter was used to obtain azimuthally dependent velocities in the inflow region and in the wake of the rotor. Data are presented here without analysis. To facilitate the use of the data sets, they are also provided on a 720 Kbyte 3 1/2-inch floppy disk in Microsoft Corporation MS-DOS format. The disk contains velocity time history data and blade pressure time history data.</p>			
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